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Joint Board of Engineers - Report.

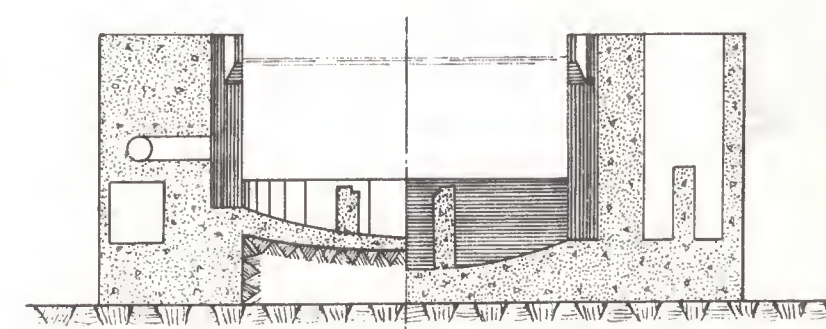
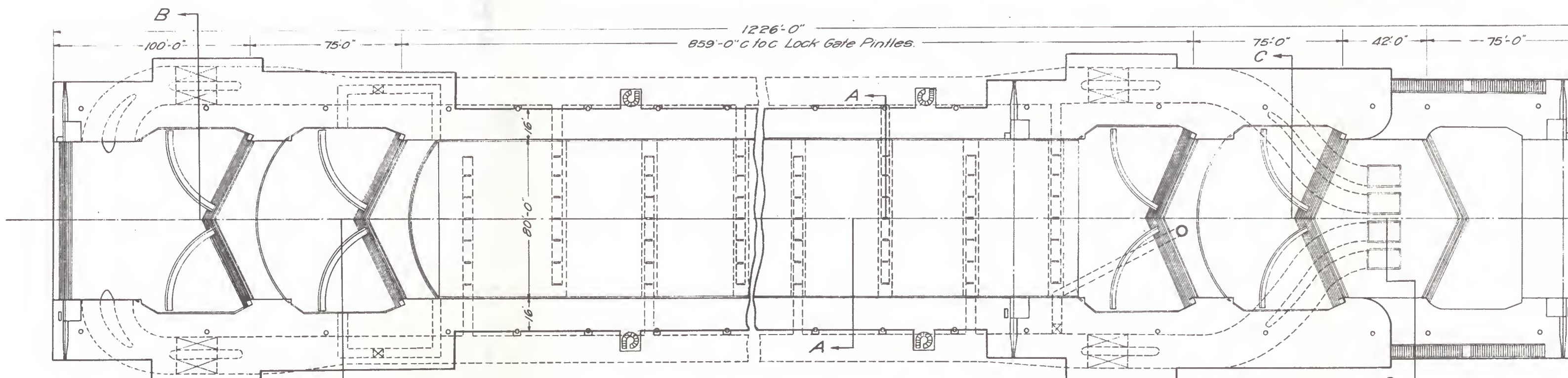
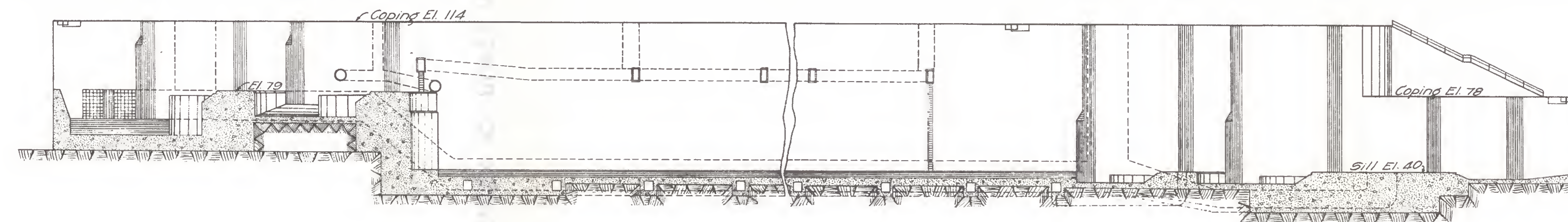
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BY THE GOVERNMENT OF
THE DOMINION OF CANADA



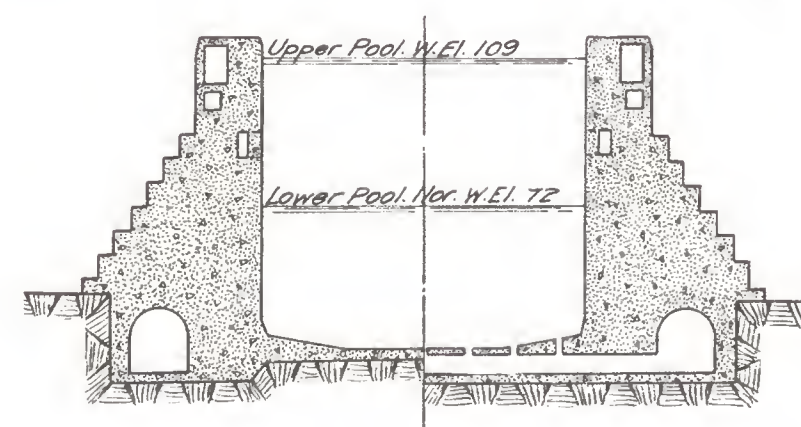
McGILL
UNIVERSITY
LIBRARY

ACC. NO. 229829 DATE 1928

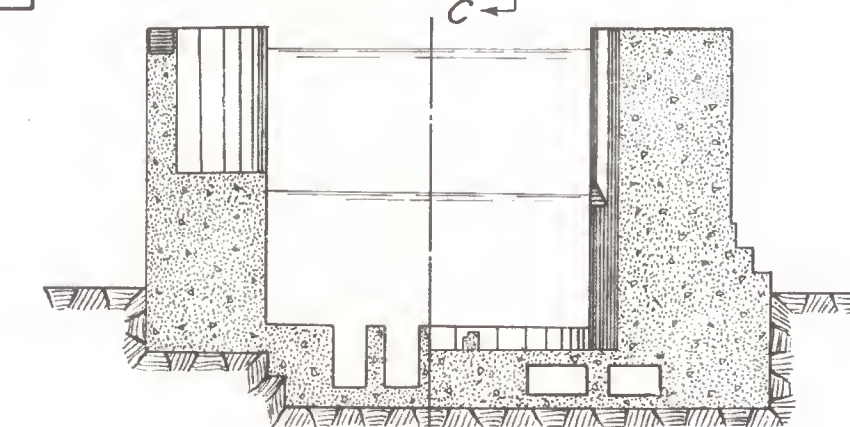
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SECTION B-B



SECTION A-A



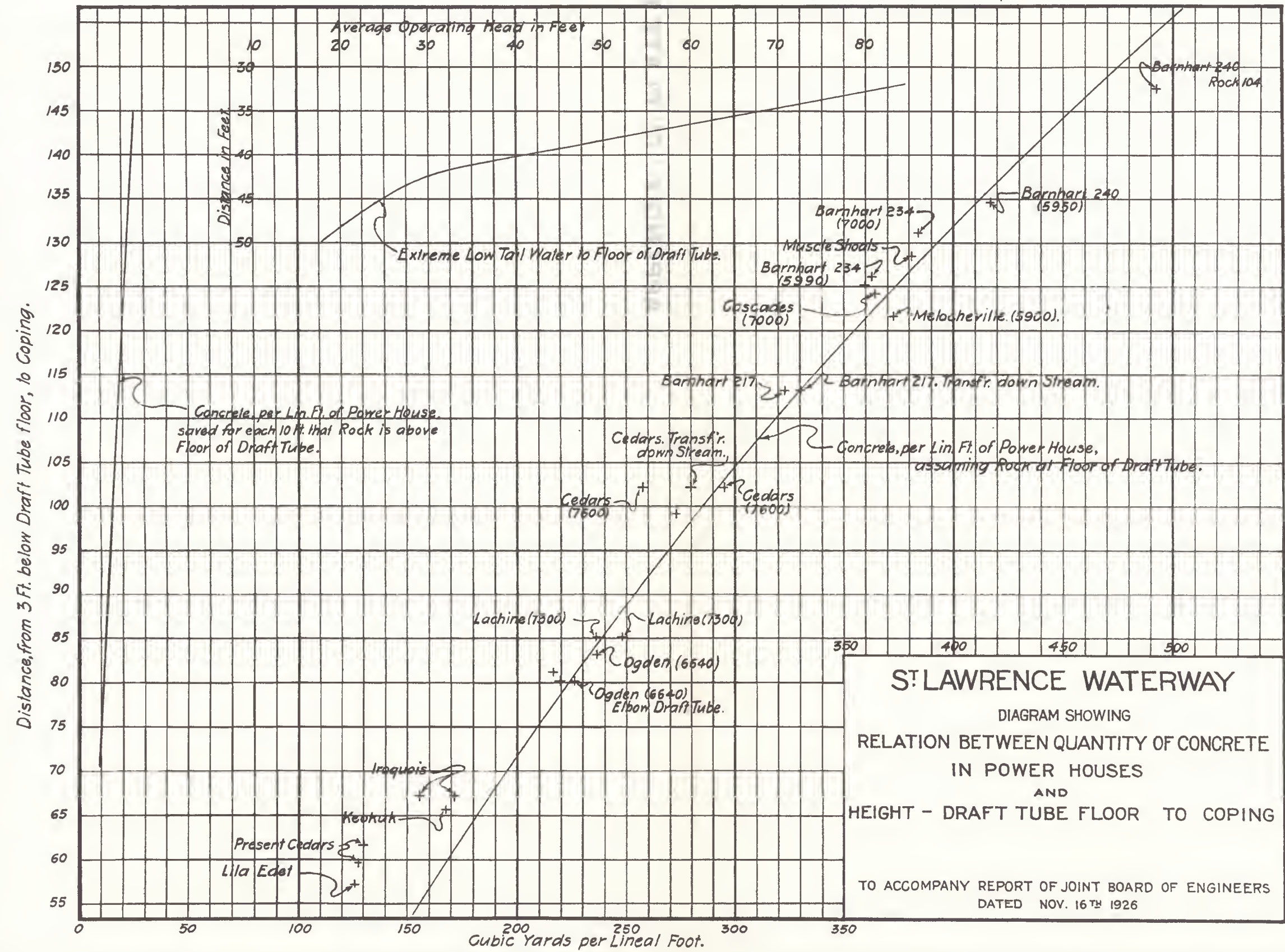
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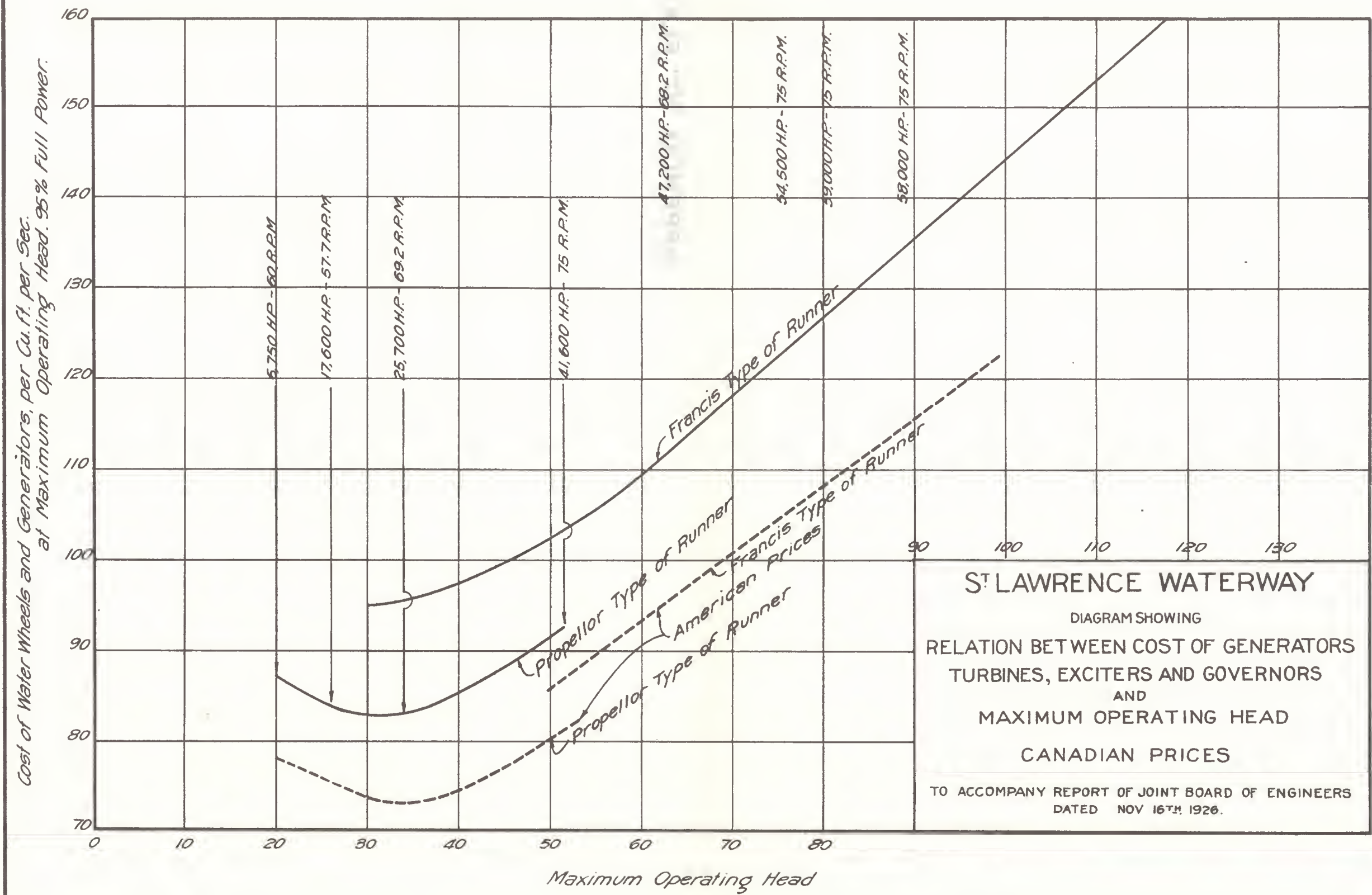
ST. LAWRENCE WATERWAY

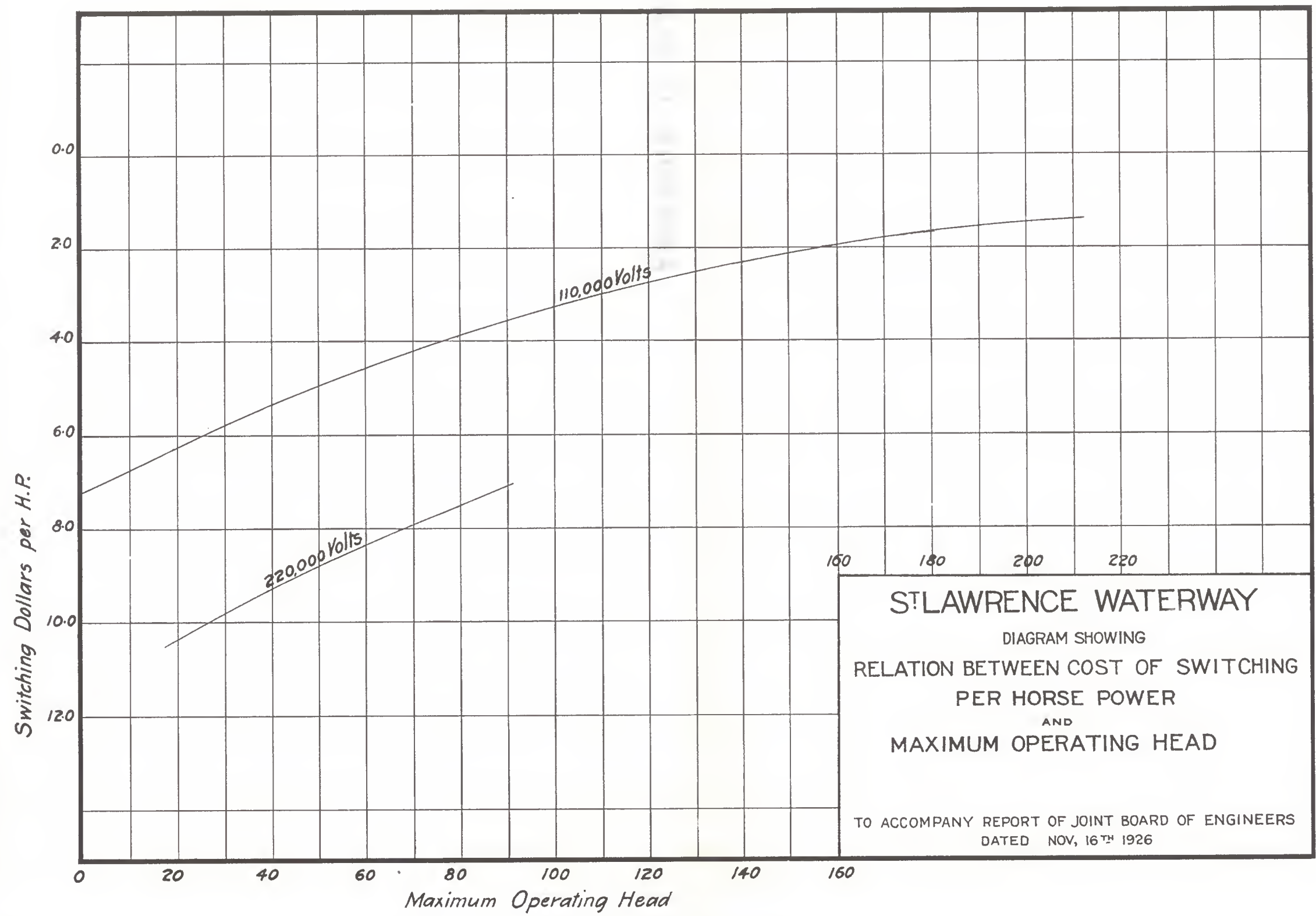
PLAN AND SECTIONS
SHOWING
PROPOSED CASCADES PT. LOCK

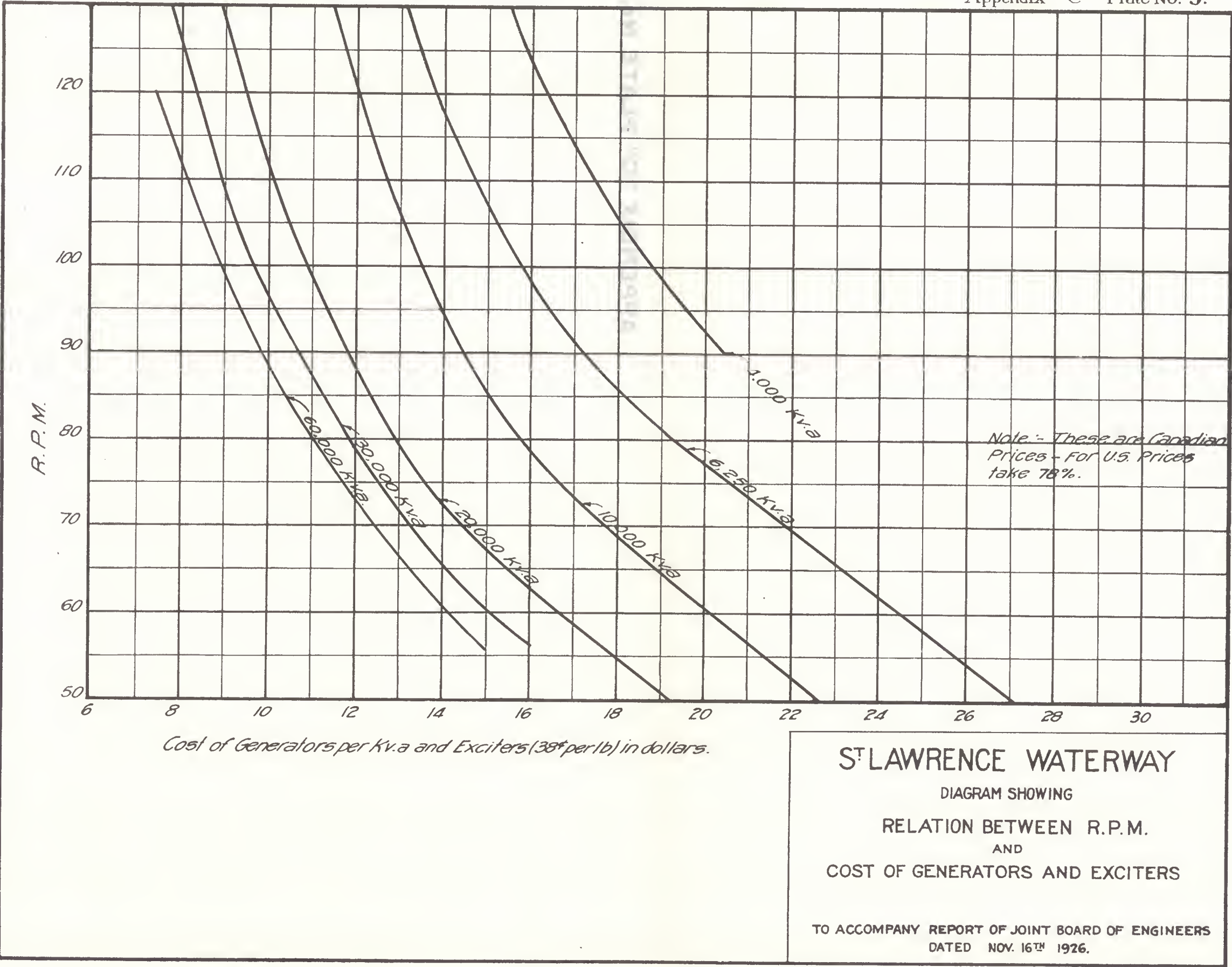
Scale of Feet
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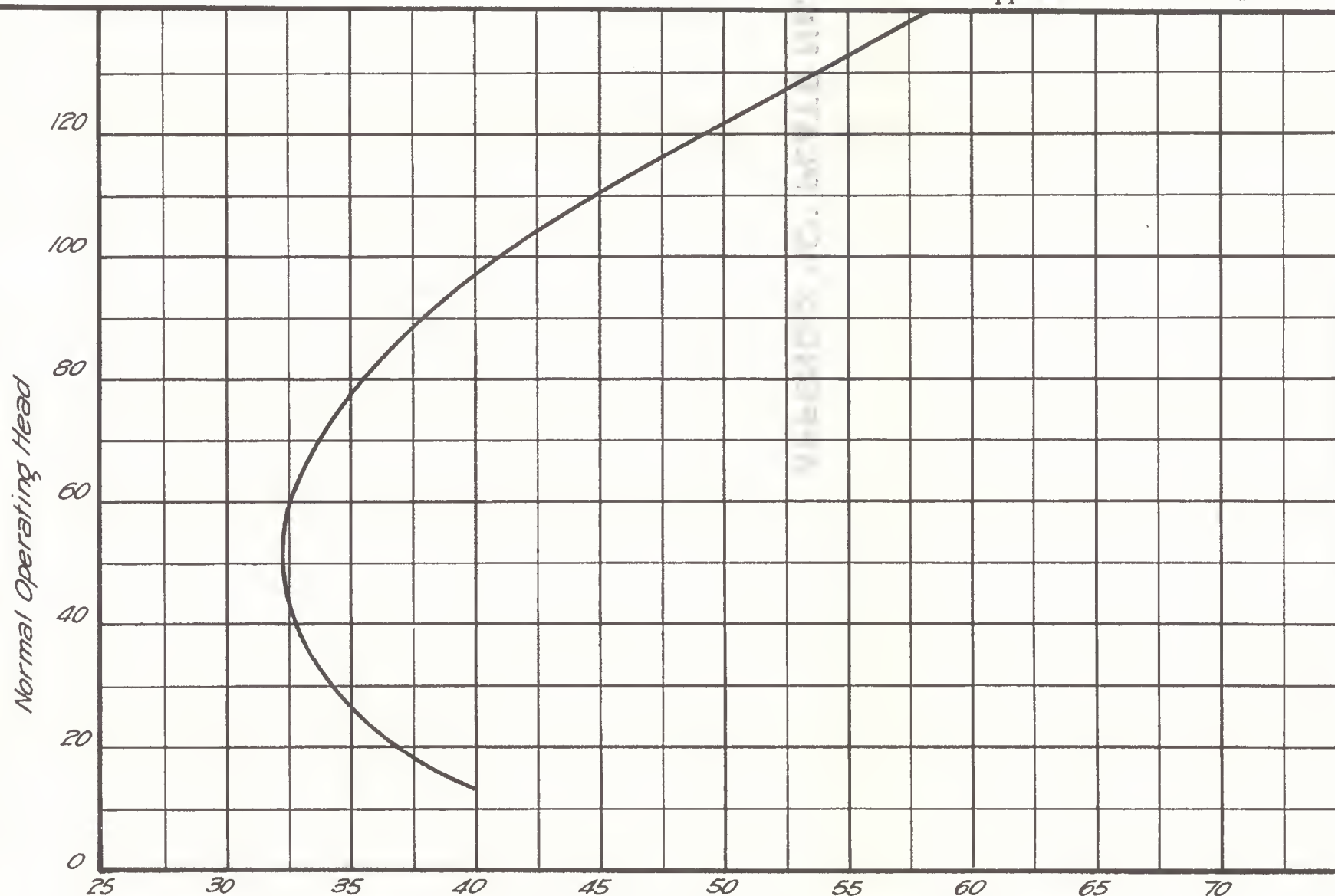
TO ACCOMPANY REPORT OF JOINT BOARD OF ENGINEERS
DATED NOV. 16TH 1926.











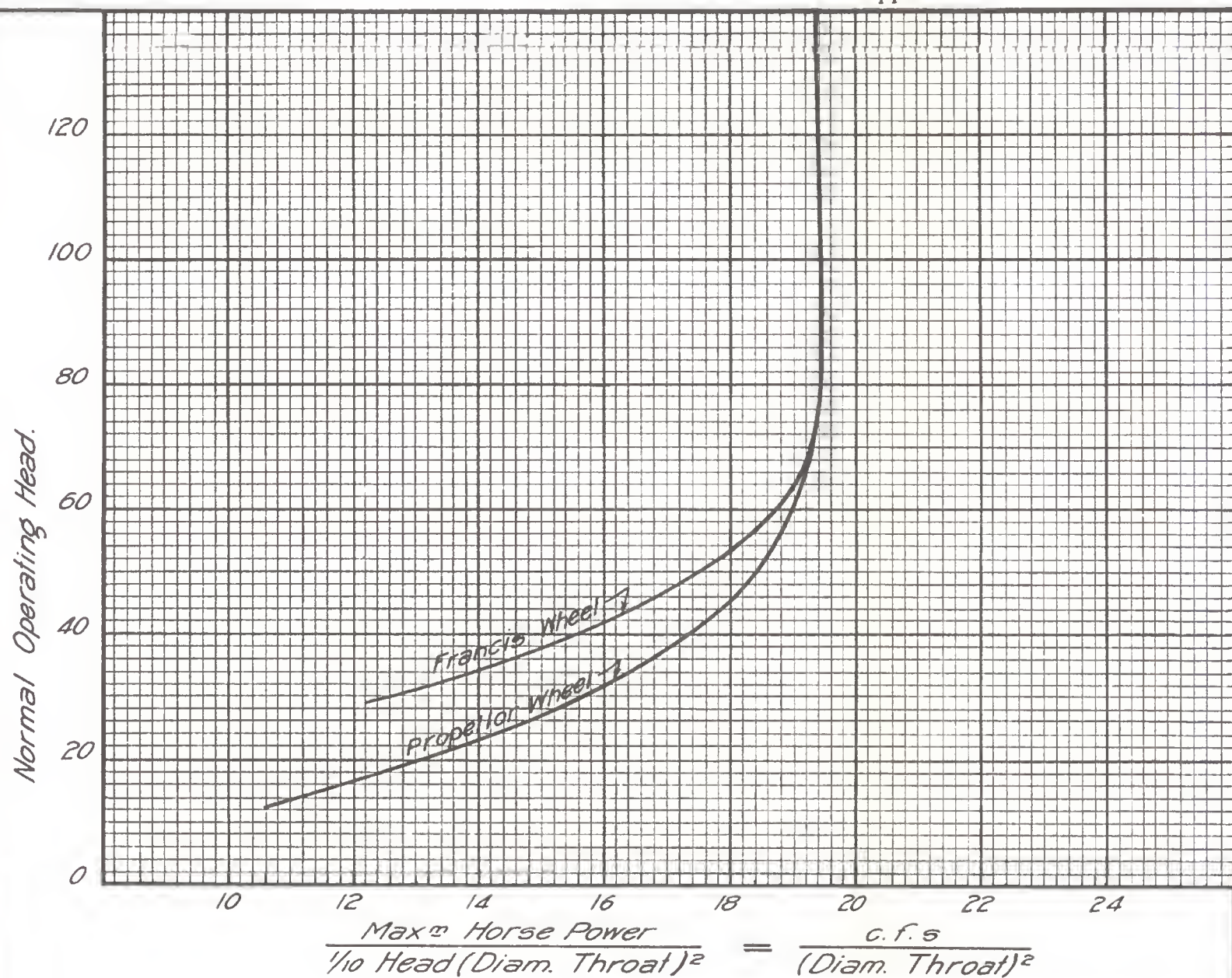
Cost F.O.B. Shop per $\frac{\text{H.P.}}{1/10 \text{ Head}}$ of Turbines and Governors in dollars

Add 12½% for erection and freight.

ST. LAWRENCE WATERWAY

DIAGRAM SHOWING
RELATION BETWEEN HEAD
AND COST OF
TURBINES AND GOVERNORS

TO ACCOMPANY REPORT OF JOINT BOARD OF ENGINEERS
DATED NOV. 16TH 1926.

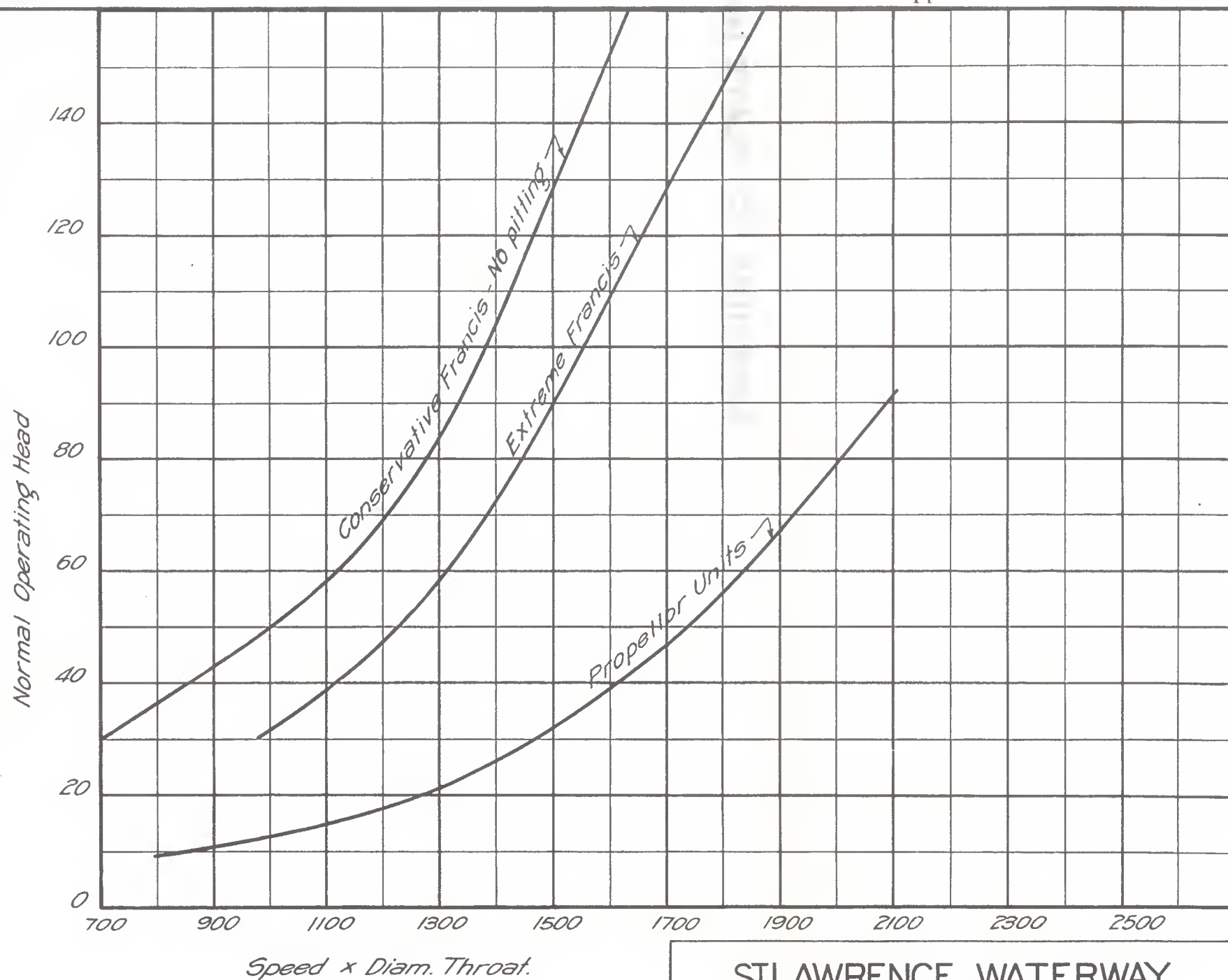


Ratio of $\frac{\text{c.to c. spacing}}{\text{Throat Diam.}}$ = $\begin{cases} 3.0 \text{ Elbow Draft Tube} \\ 3.6 \text{ Moody} \end{cases}$

ST. LAWRENCE WATERWAY

DIAGRAM SHOWING
RELATION BETWEEN HEAD
C.F.S PER UNIT
AND THROAT DIAMETER

TO ACCOMPANY REPORT OF JOINT BOARD OF ENGINEERS
DATED NOV. 16TH 1926.

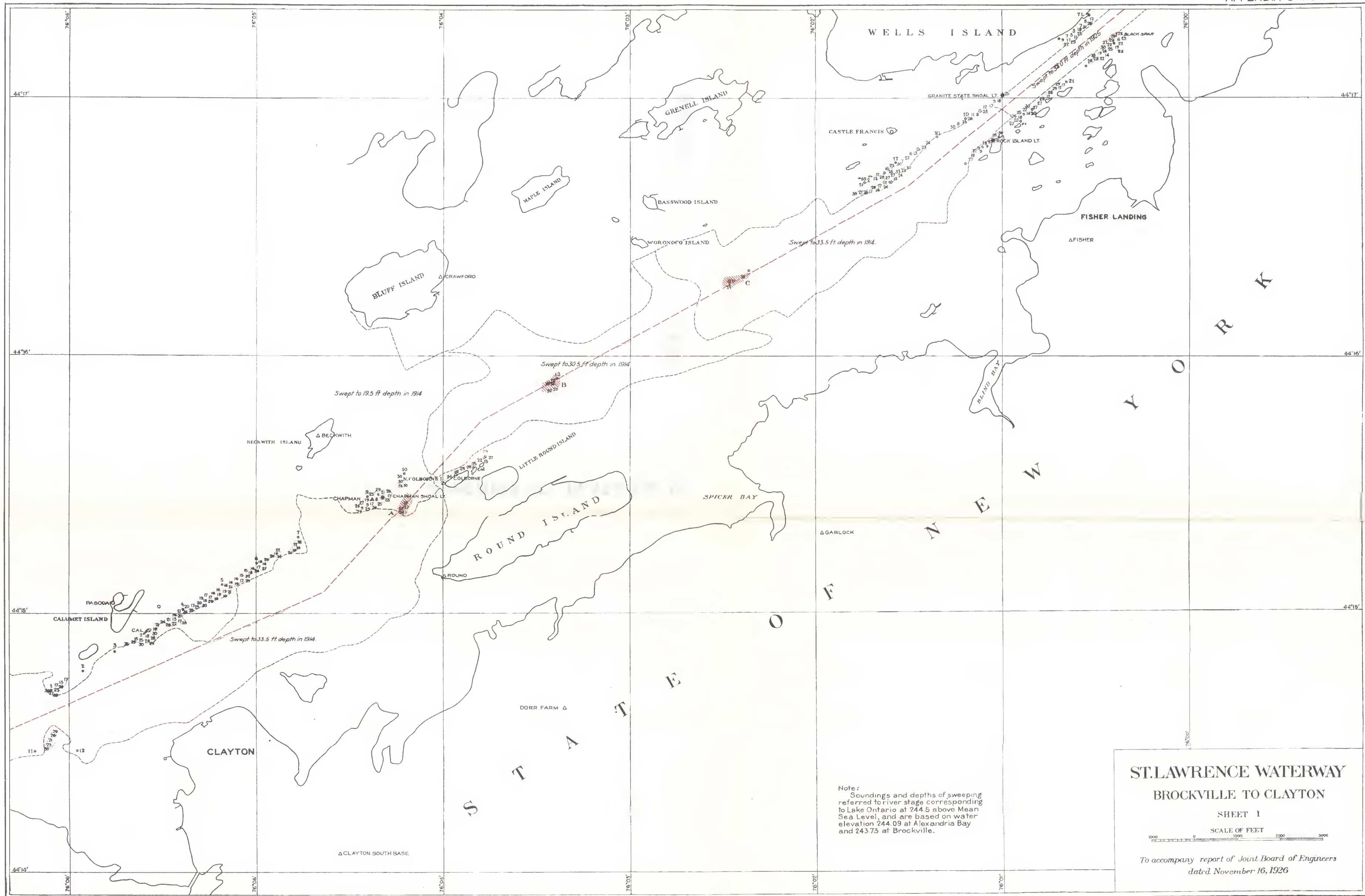


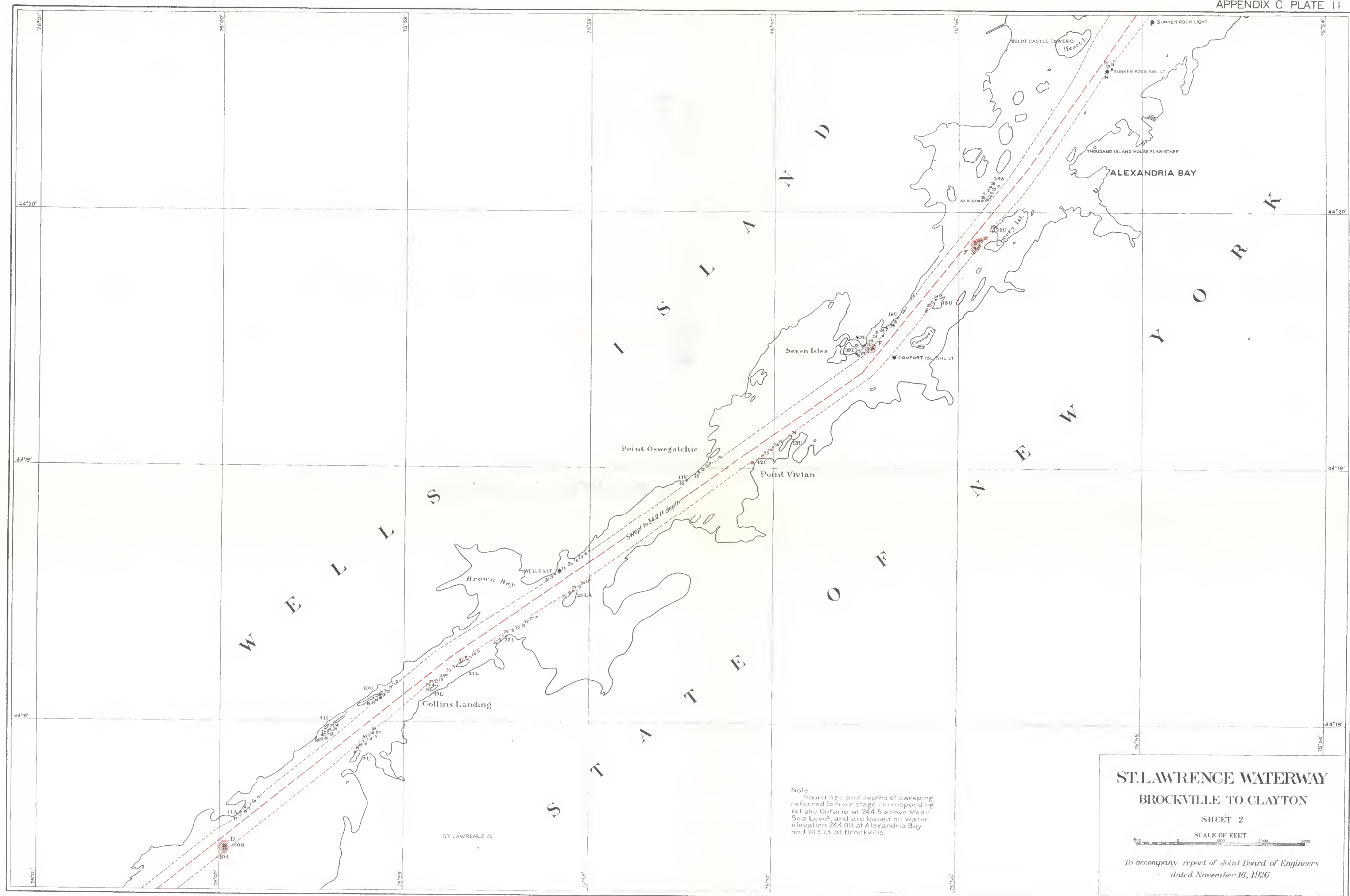
ST. LAWRENCE WATERWAY

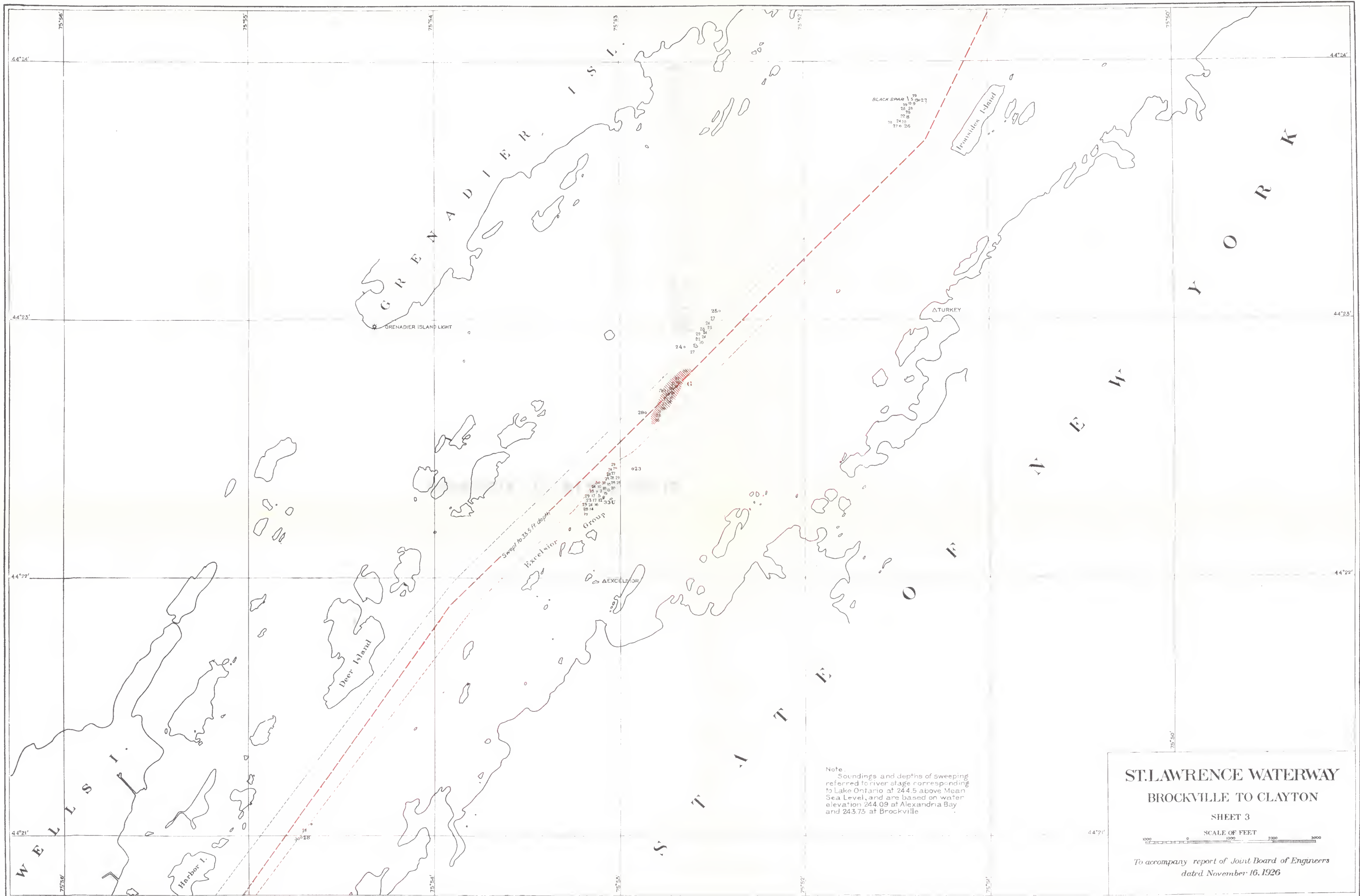
DIAGRAM SHOWING
RELATION BETWEEN HEAD
SPEED

AND THROAT DIAMETER

TO ACCOMPANY REPORT OF JOINT BOARD OF ENGINEERS
DATED NOV. 16TH, 1926.

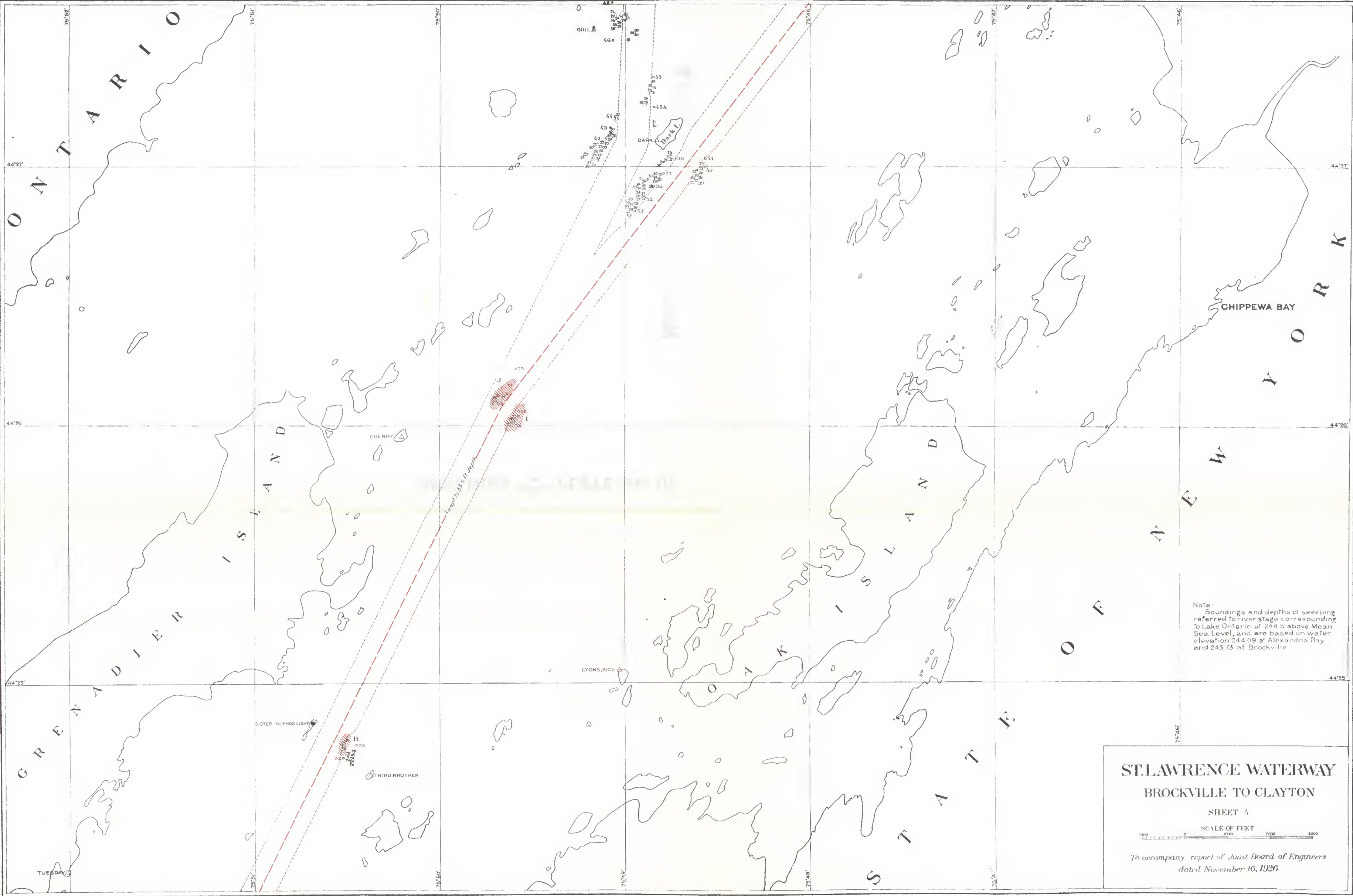


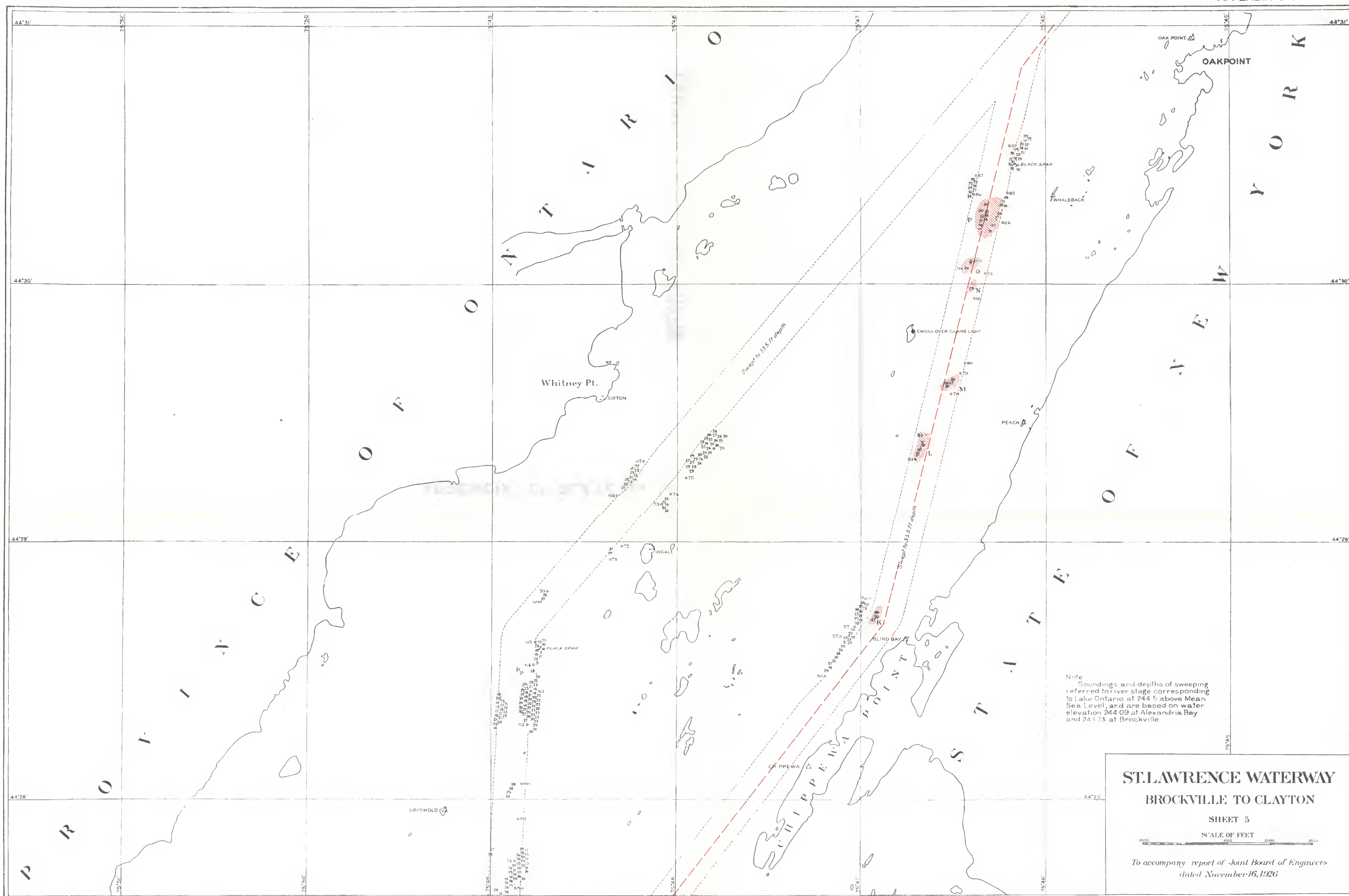


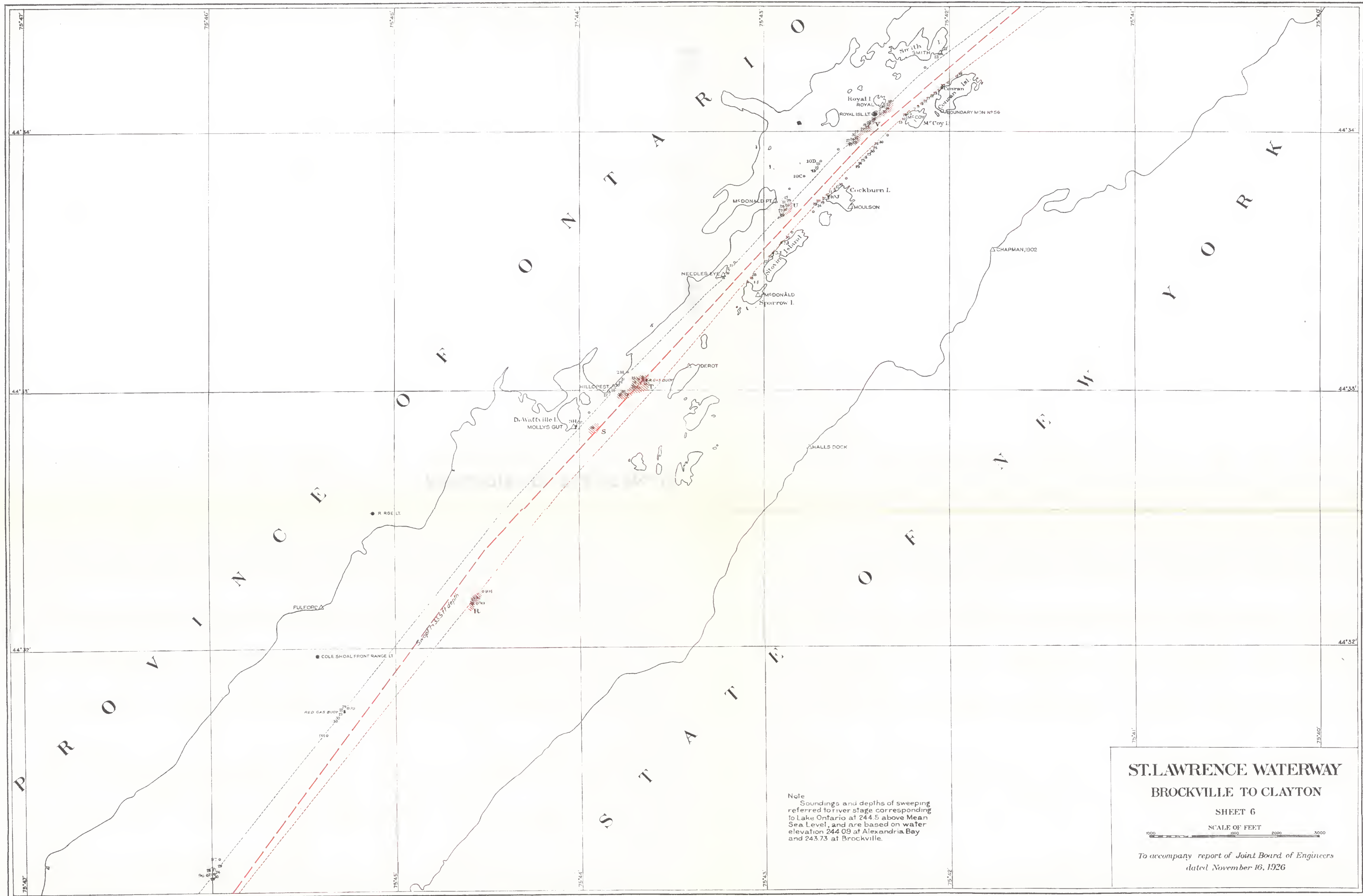


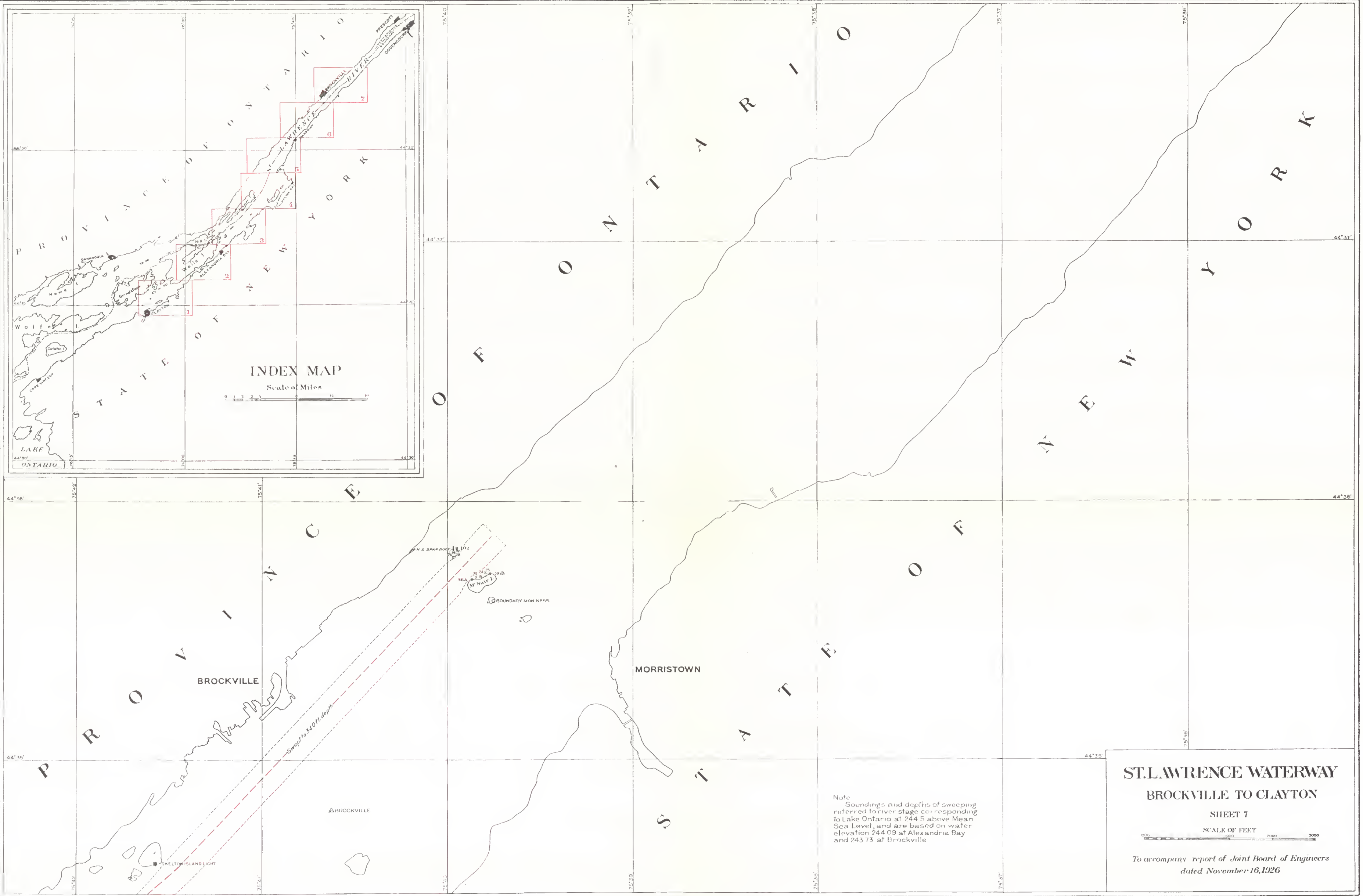
Note.
Soundings and depths of sweeping
referred to river stage corresponding
to Lake Ontario at 244.5 above Mean
Sea Level, and are based on water
elevation 244.09 at Alexandria Bay
and 243.73 at Brockville.

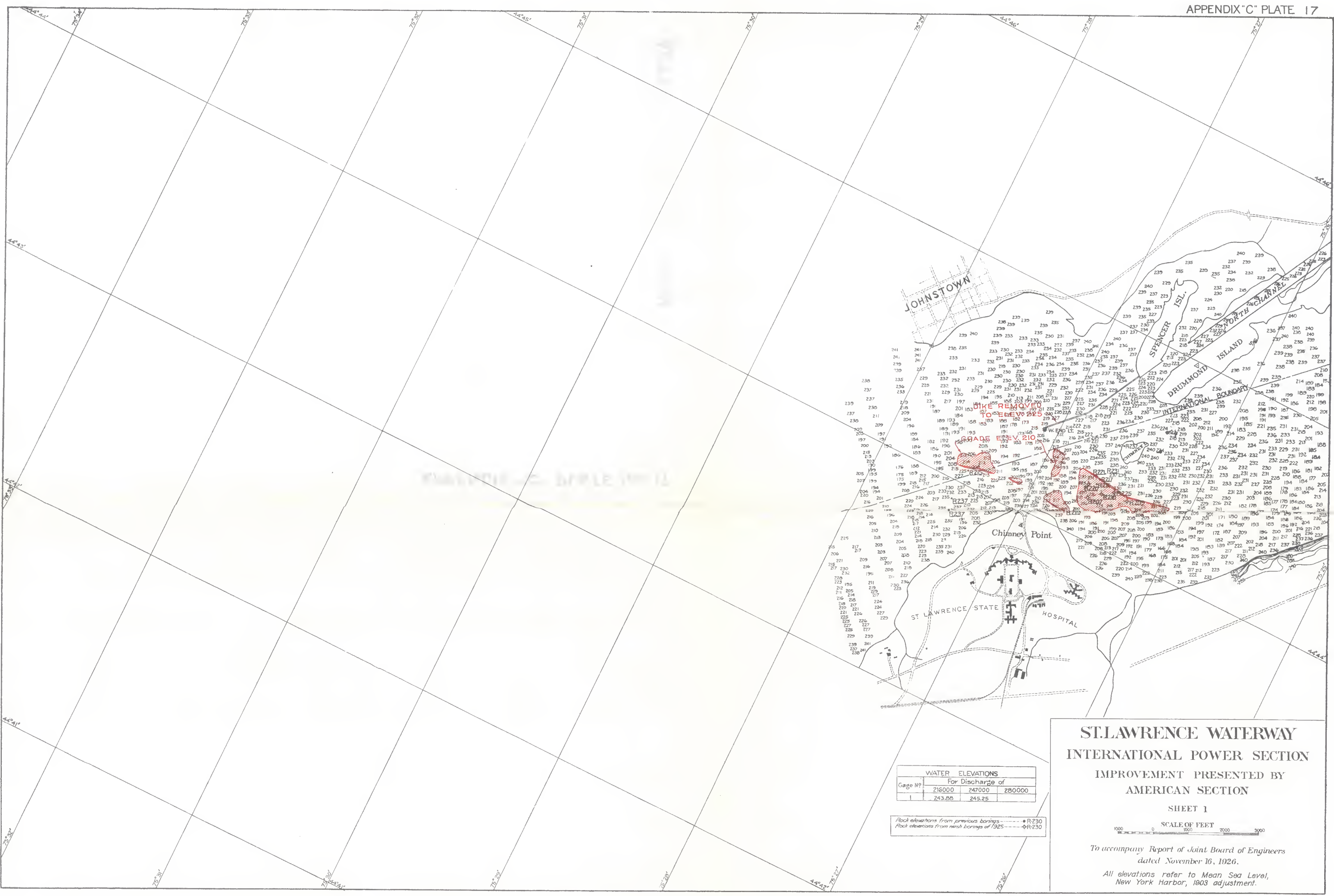
ST. LAWRENCE WATERWAY
BROCKVILLE TO CLAYTON
 SHEET 3
 SCALE OF FEET
 0 1000 2000 3000 4000
*To accompany report of Joint Board of Engineers
 dated November 16, 1926*











WATER ELEVATIONS		
Gage No.	For Discharge of	
1	216000	247000
	243.88	245.25

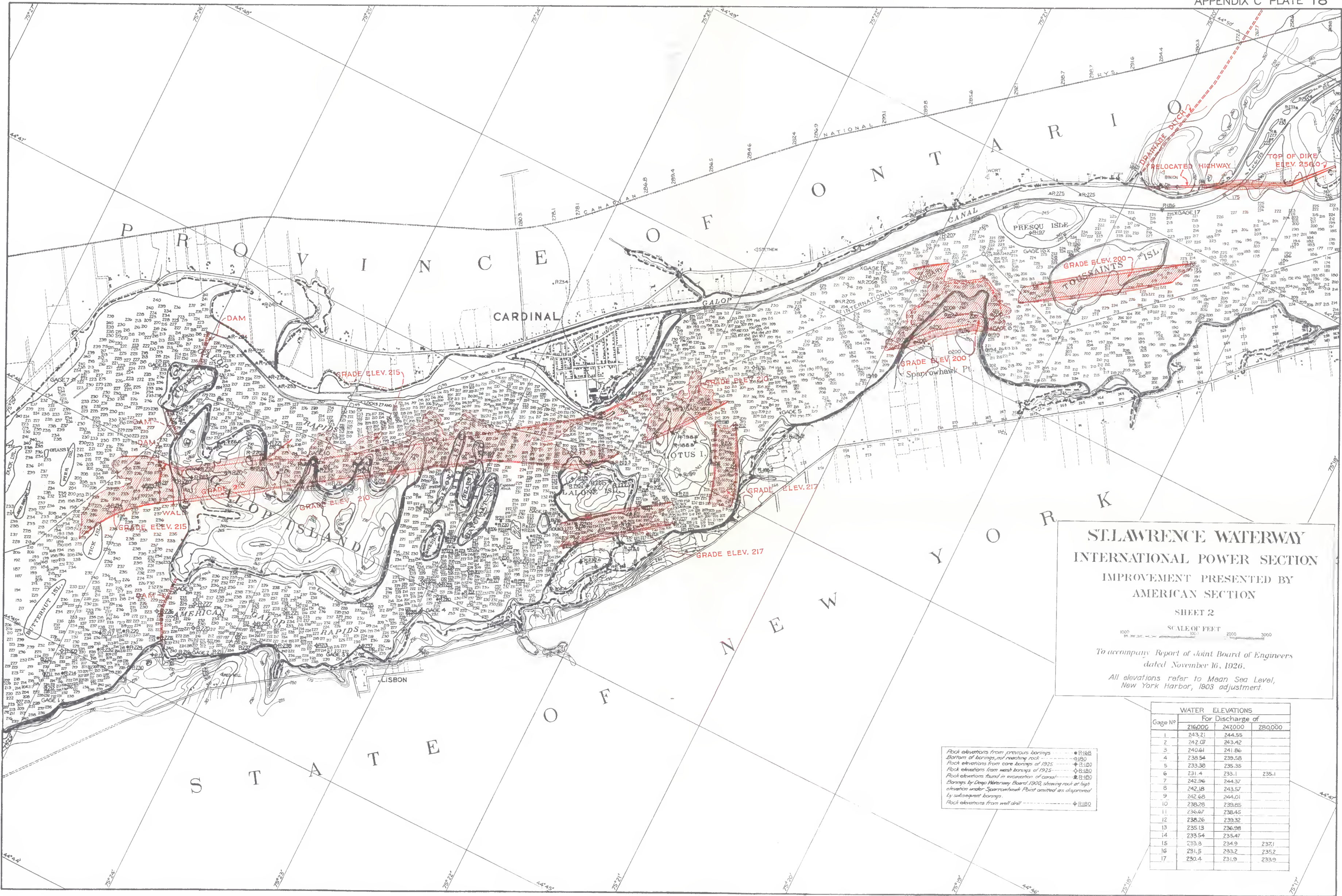
Rock elevations from previous borings..... R-230
Rock elevations from new borings of 1925..... R-230

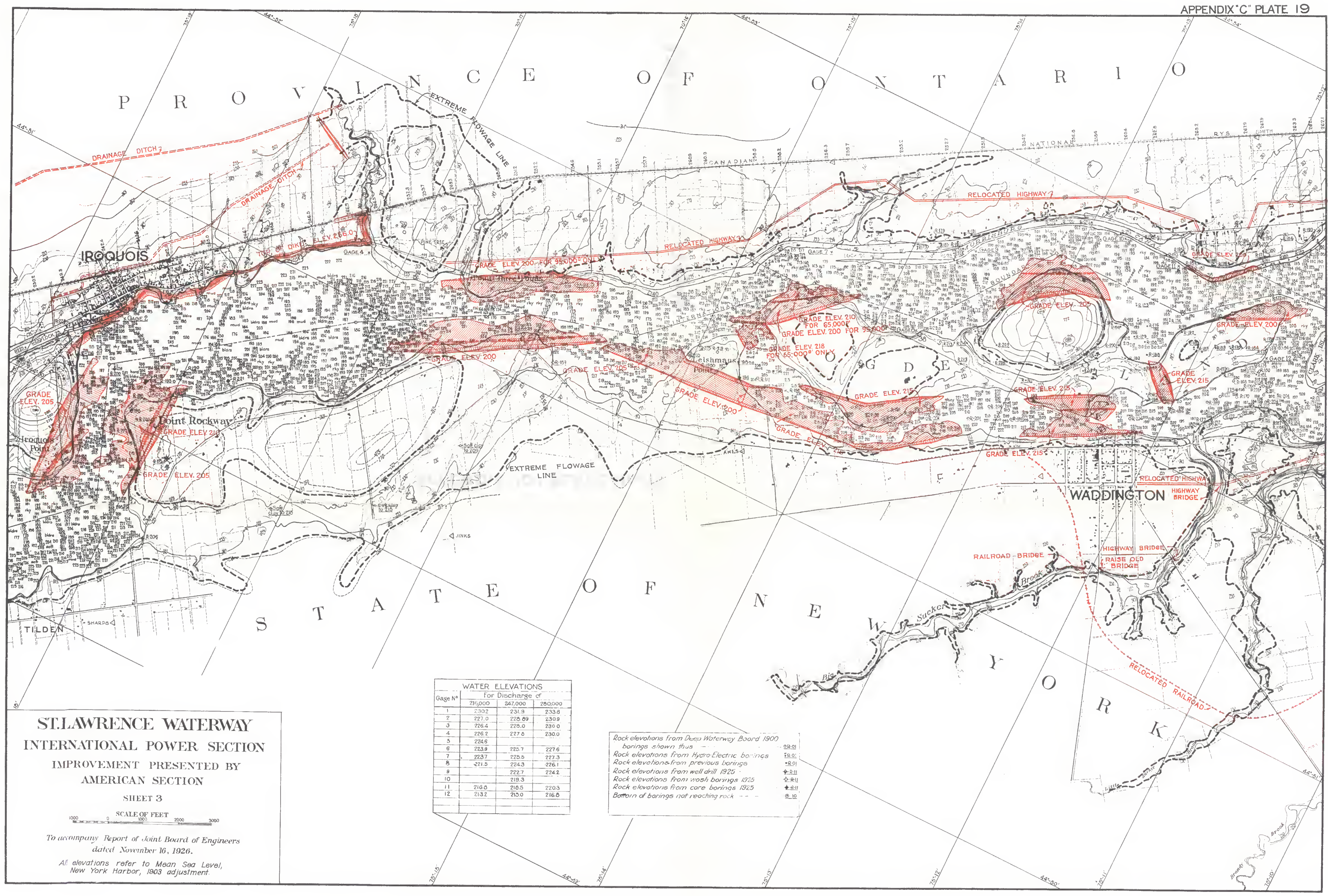
ST. LAWRENCE WATERWAY
INTERNATIONAL POWER SECTION
IMPROVEMENT PRESENTED BY
AMERICAN SECTION
SHEET 1

SCALE OF FEET
0 1000 2000 3000

To accompany Report of Joint Board of Engineers
dated November 16, 1926.

All elevations refer to Mean Sea Level,
New York Harbor, 1903 adjustment.





ST. LAWRENCE WATERWAY
INTERNATIONAL POWER SECTION
IMPROVEMENT PRESENTED BY
AMERICAN SECTION
SHEET 3

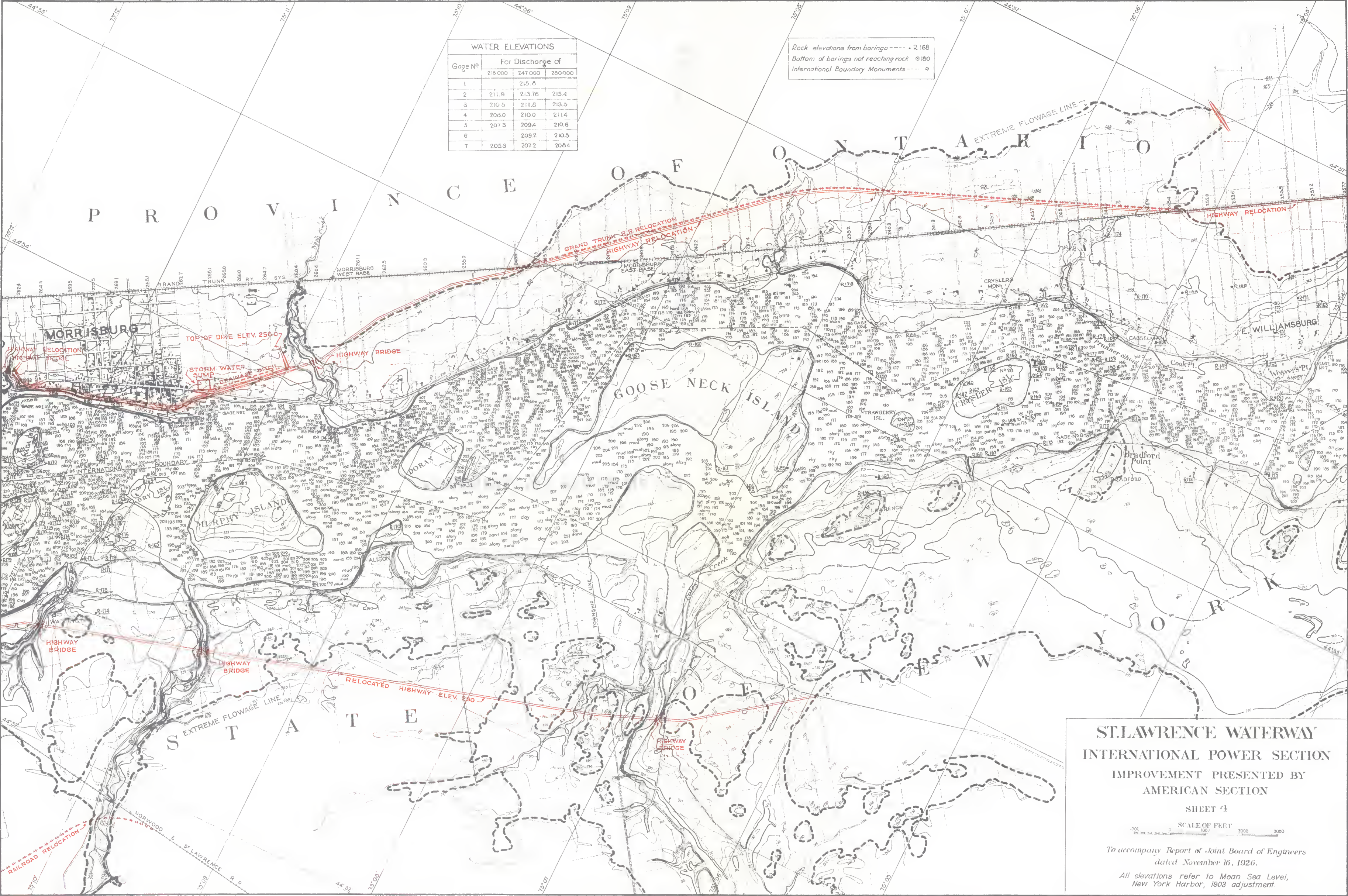
SCALE OF FEET
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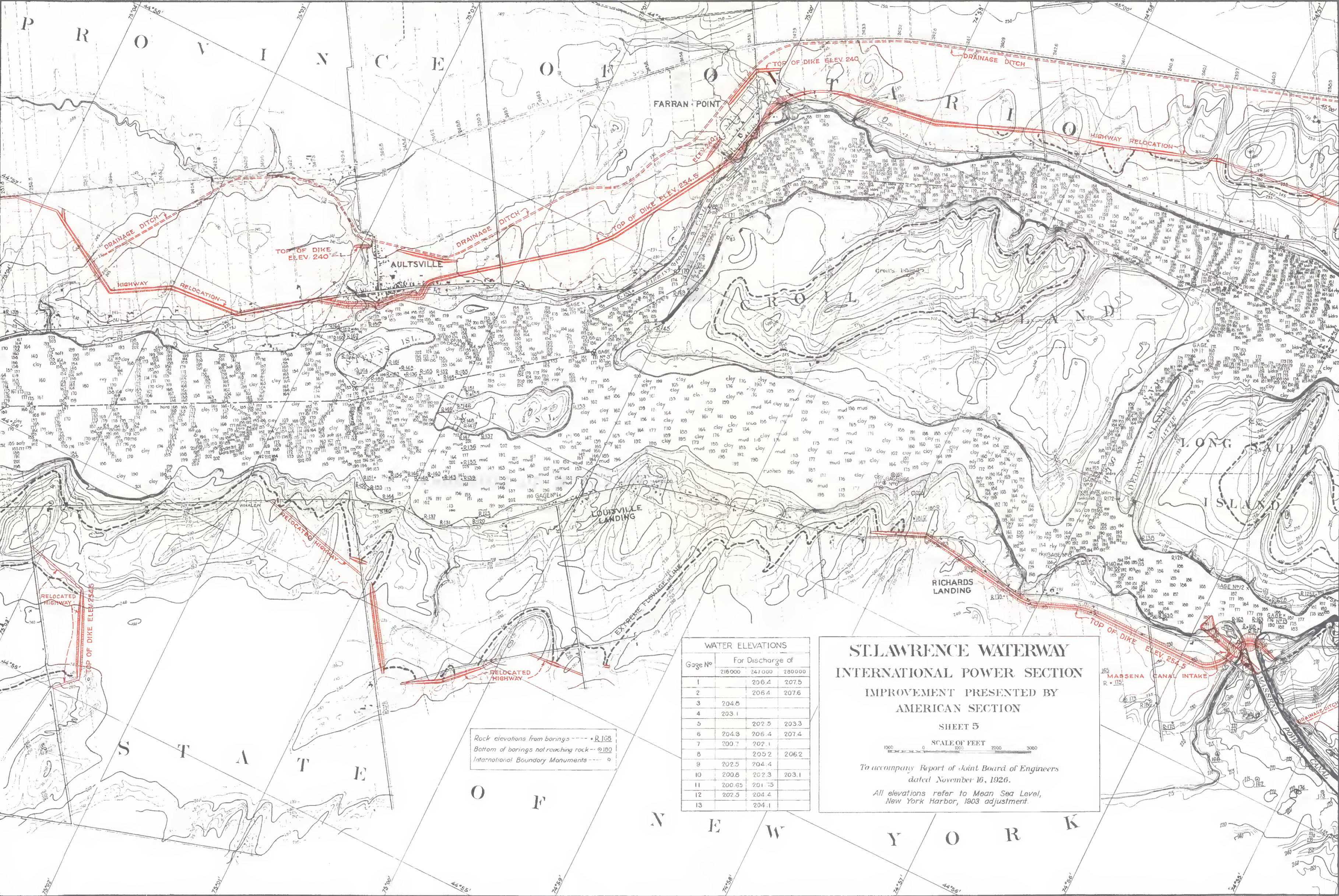
To accompany Report of Joint Board of Engineers
dated November 16, 1926.

All elevations refer to Mean Sea Level,
New York Harbor, 1903 adjustment.

Gage No.	WATER ELEVATIONS For Discharge of		
	215,000	247,000	280,000
1	230.2	231.9	233.6
2	227.0	228.69	230.9
3	226.4	228.0	230.0
4	226.2	227.6	230.0
5	224.6		
6	223.9	225.7	227.6
7	223.7	225.5	227.3
8	221.5	224.3	226.1
9		222.7	224.2
10		219.3	
11	216.0	216.5	220.3
12	213.2	215.0	216.6

Rock elevations from Deep Waterway Board 1900 borings shown thus —
Rock elevations from Hydro-Electric borings —
Rock elevations from previous borings —
Rock elevations from well drill 1925 —
Rock elevations from wash borings 1925 —
Rock elevations from core borings 1925 —
Bottom of borings not reaching rock —

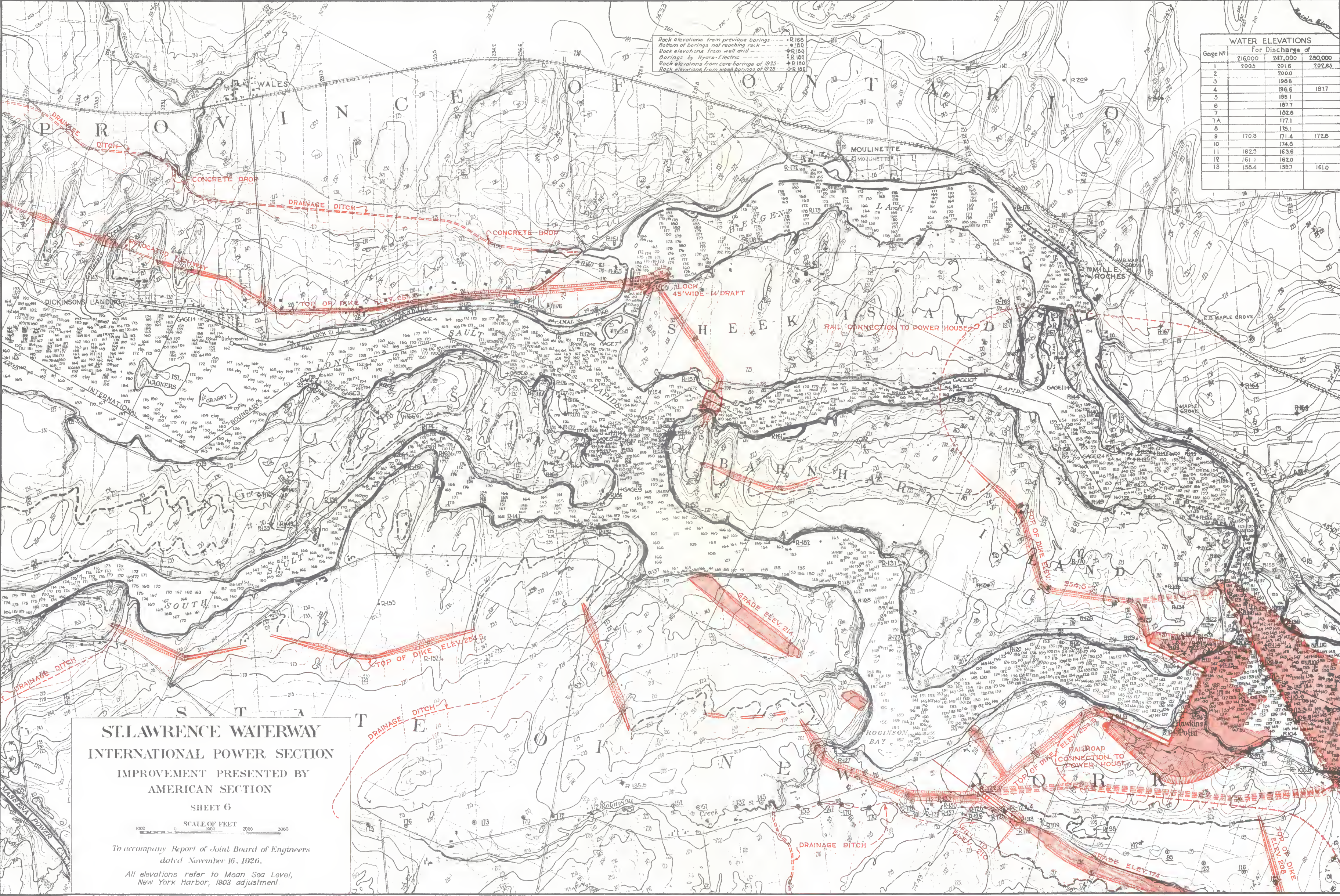




Rock elevations from borings --- • R168
Bottom of borings not reaching rock --- • R180
International Boundary Monuments --- •

WATER ELEVATIONS			
Gage No.	For Discharge of		
	216,000	241,000	280,000
1		206.4	207.5
2		206.4	207.6
3	204.8		
4	203.1		
5		202.5	203.3
6	204.3	206.4	207.4
7	200.7	202.1	
8		205.2	206.2
9	202.5	204.4	
10	200.6	202.3	203.1
11	200.65	201.3	
12	202.5	204.4	
13		204.1	

ST. LAWRENCE WATERWAY
INTERNATIONAL POWER SECTION
IMPROVEMENT PRESENTED BY
AMERICAN SECTION
SHEET 5
SCALE OF FEET
1000 2000 3000
To accompany Report of Joint Board of Engineers
dated November 16, 1926.
All elevations refer to Mean Sea Level,
New York Harbor, 1903 adjustment.





ST. LAWRENCE WATERWAY
INTERNATIONAL POWER SECTION
IMPROVEMENT PRESENTED BY
AMERICAN SECTION
SHEET 6A

SCALE OF FEET
1000 0 1000 2000 3000

To accompany Report of Joint Board of Engineers
dated November 16, 1926.

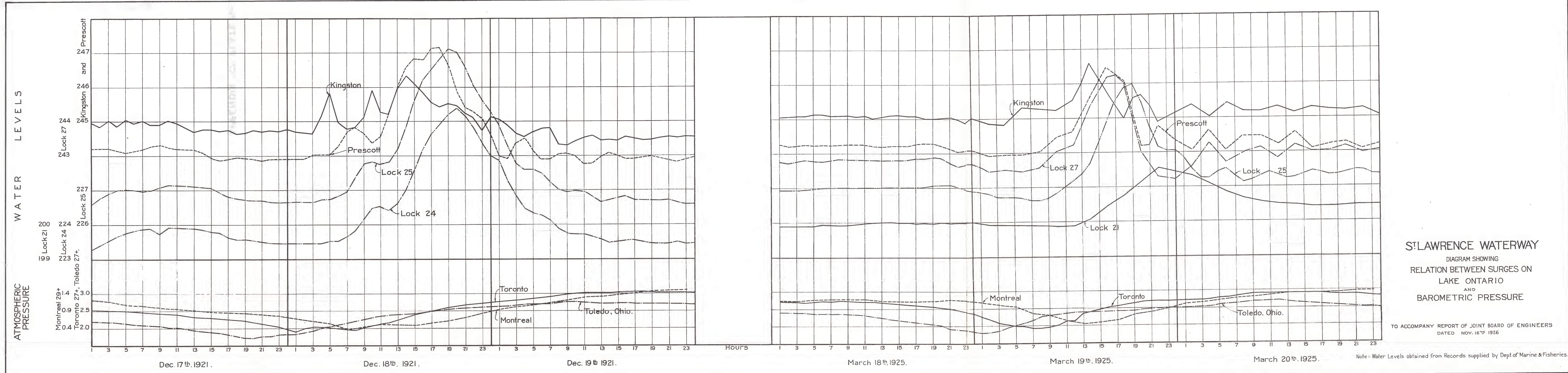
All elevations refer to Mean Sea Level,
New York Harbor, 1903 adjustment.

1000 0 1000 2000 3000

*All elevations refer to Mean Sea Level,
New York Harbor, 1903 adjustment.*

WATER ELEVATIONS			
Gage No.	For Discharge of		
	216 000	247 000	280 000
1	156.7	158.05	160.0
2	104.9	156.15	157.2
3	156.5		
4	153.4	155.2	156.1
5	152.0	153.7	154.6
6	152.45	153.56	154.26
7	152.25	153.2	154.1
8	152.1	153.1	154.0

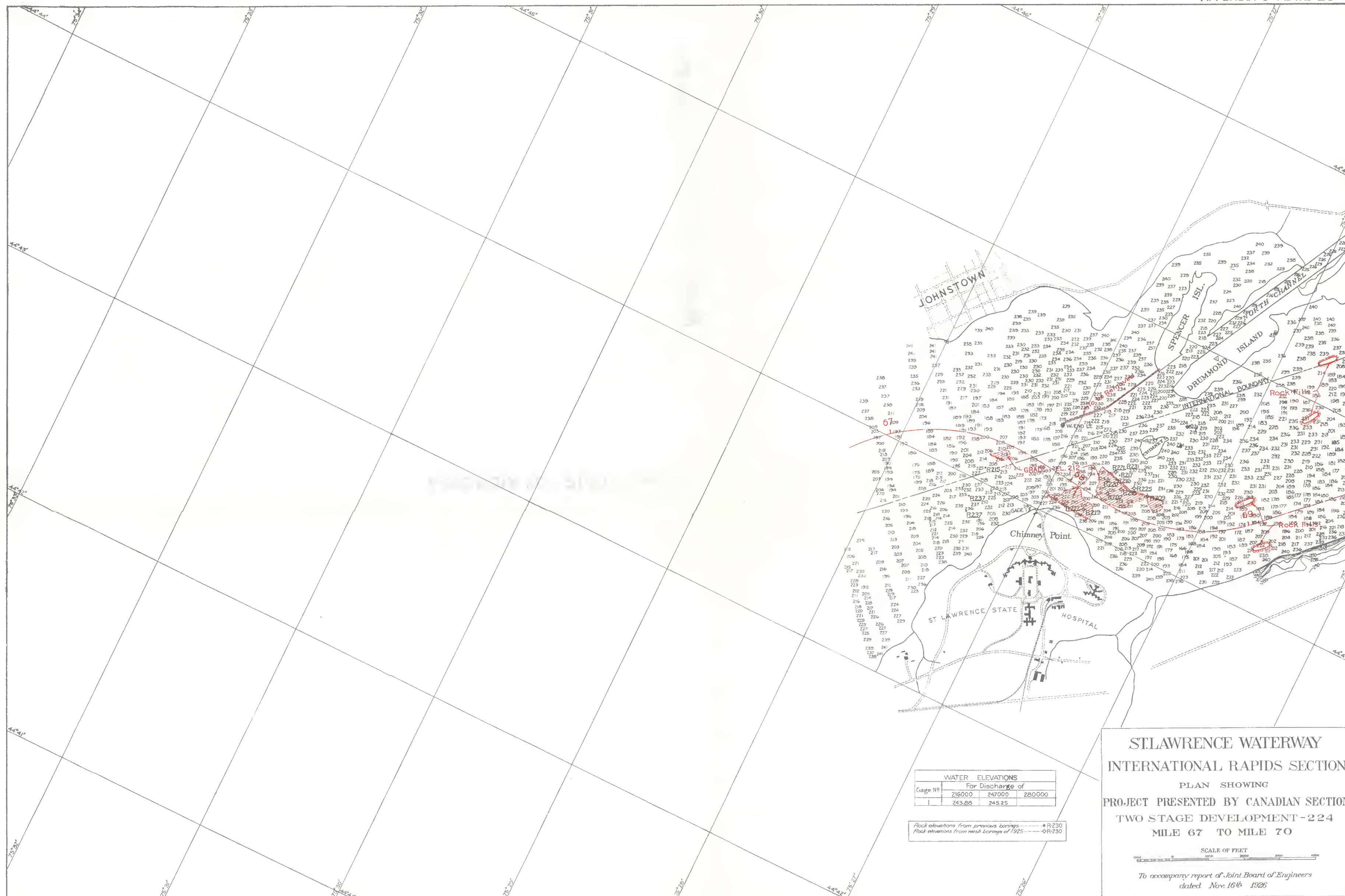
Rock elevations from borings ---- • R 160
Bottom of borings not reaching rock -- • 180
International Boundary Monuments ---- ♦

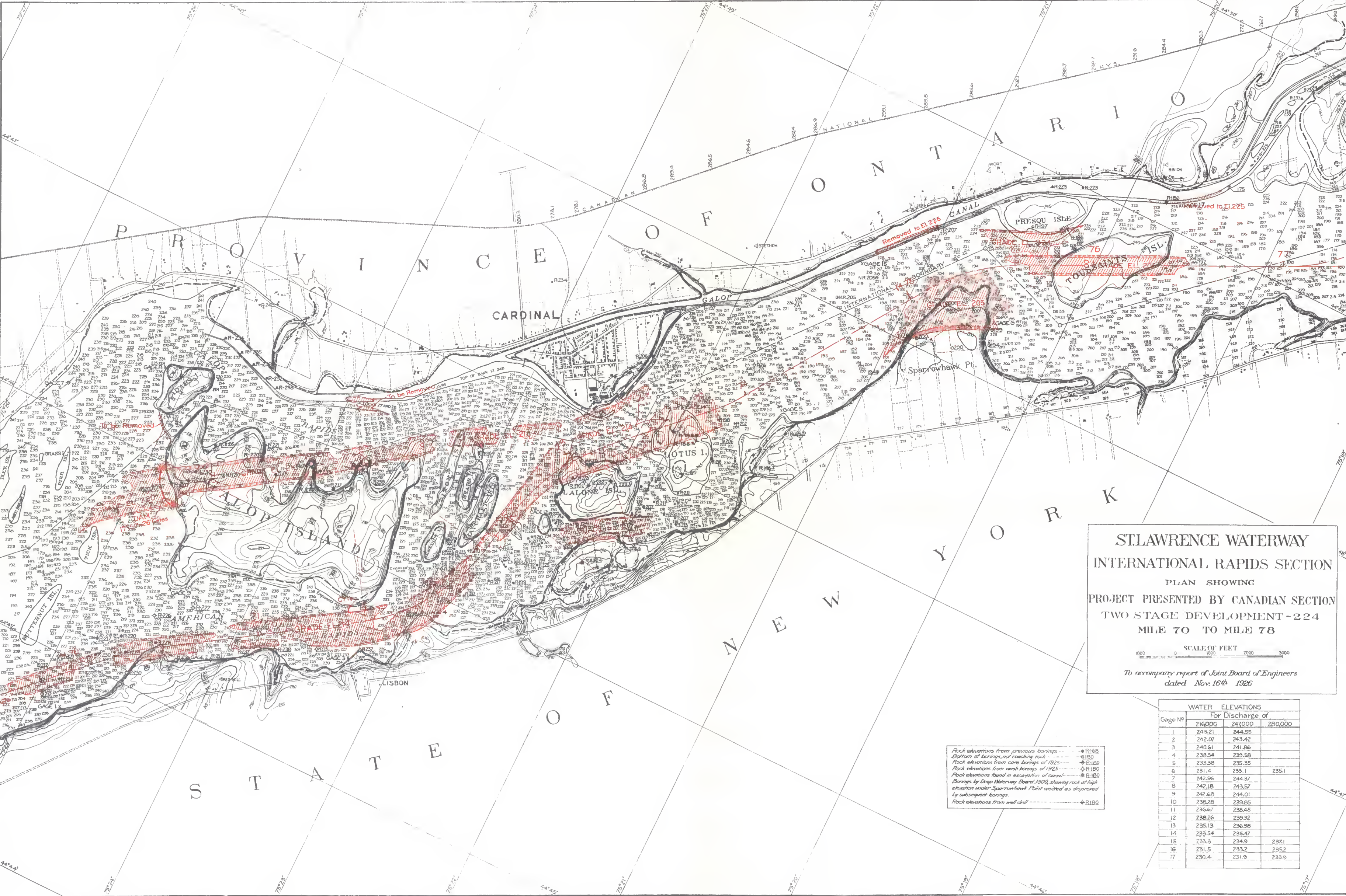


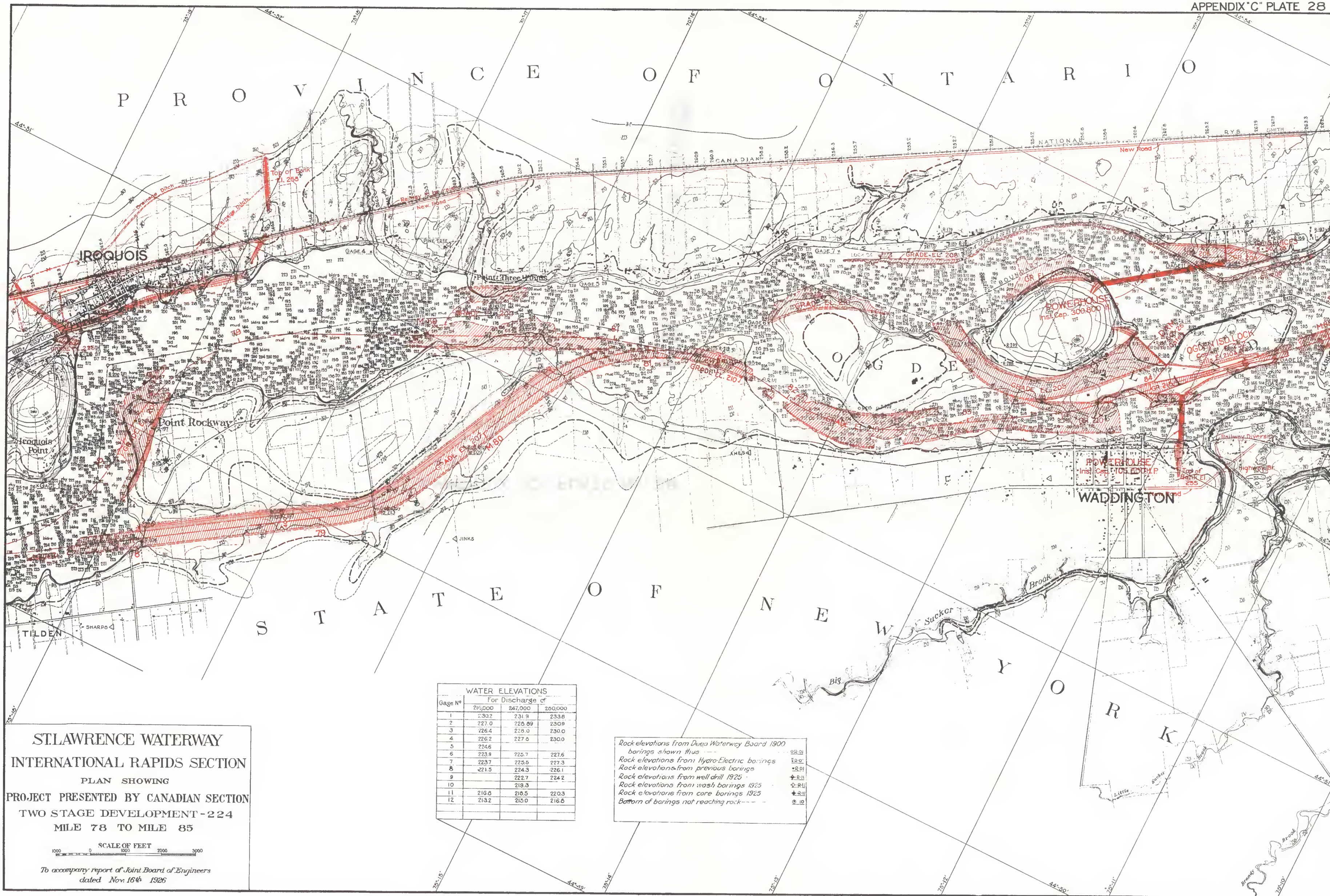
ST. LAWRENCE WATERWAY
DIAGRAM SHOWING
RELATION BETWEEN SURGES ON
LAKE ONTARIO
AND
BAROMETRIC PRESSURE

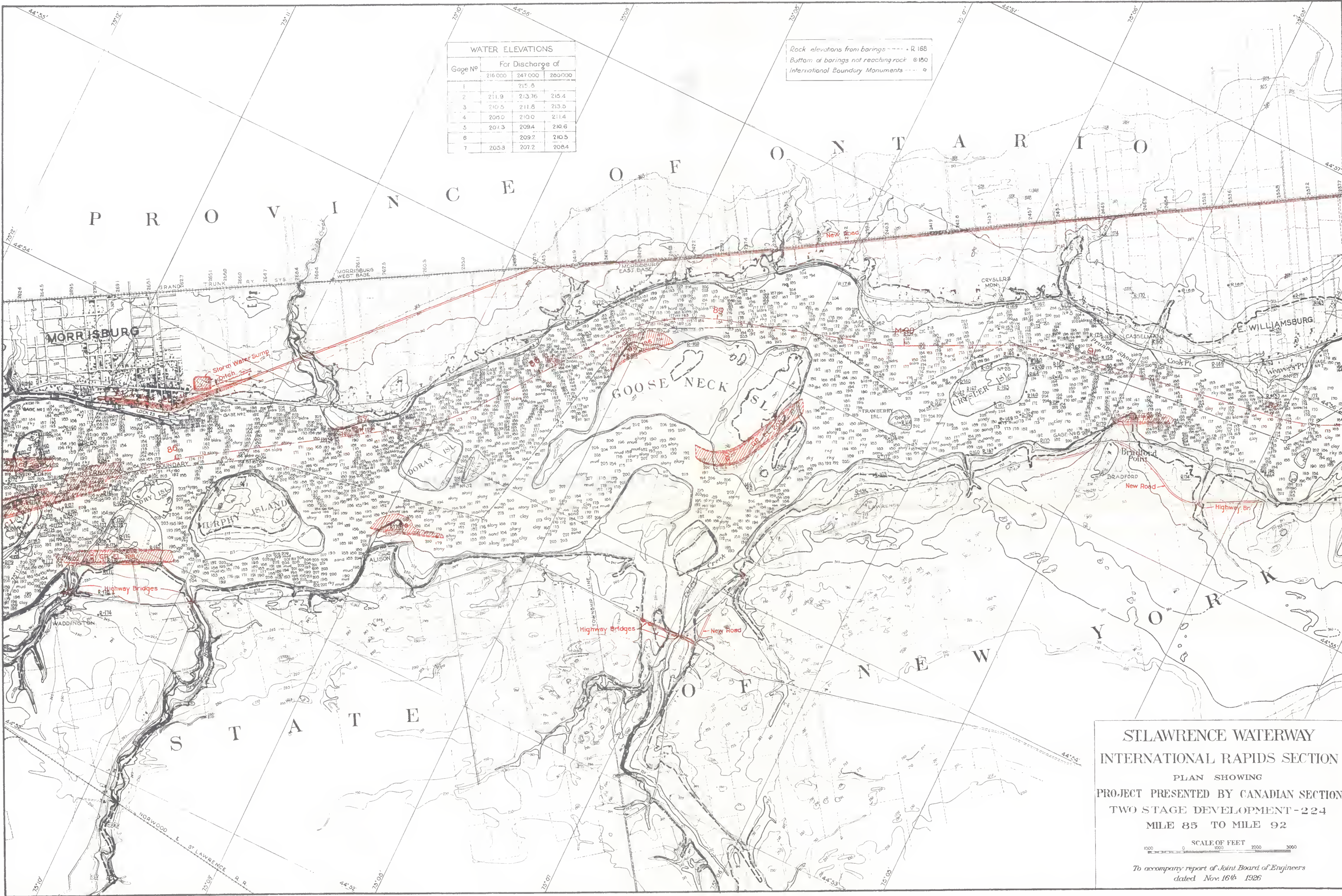
TO ACCOMPANY REPORT OF JOINT BOARD OF ENGINEERS
DATED NOV. 16TH 1926

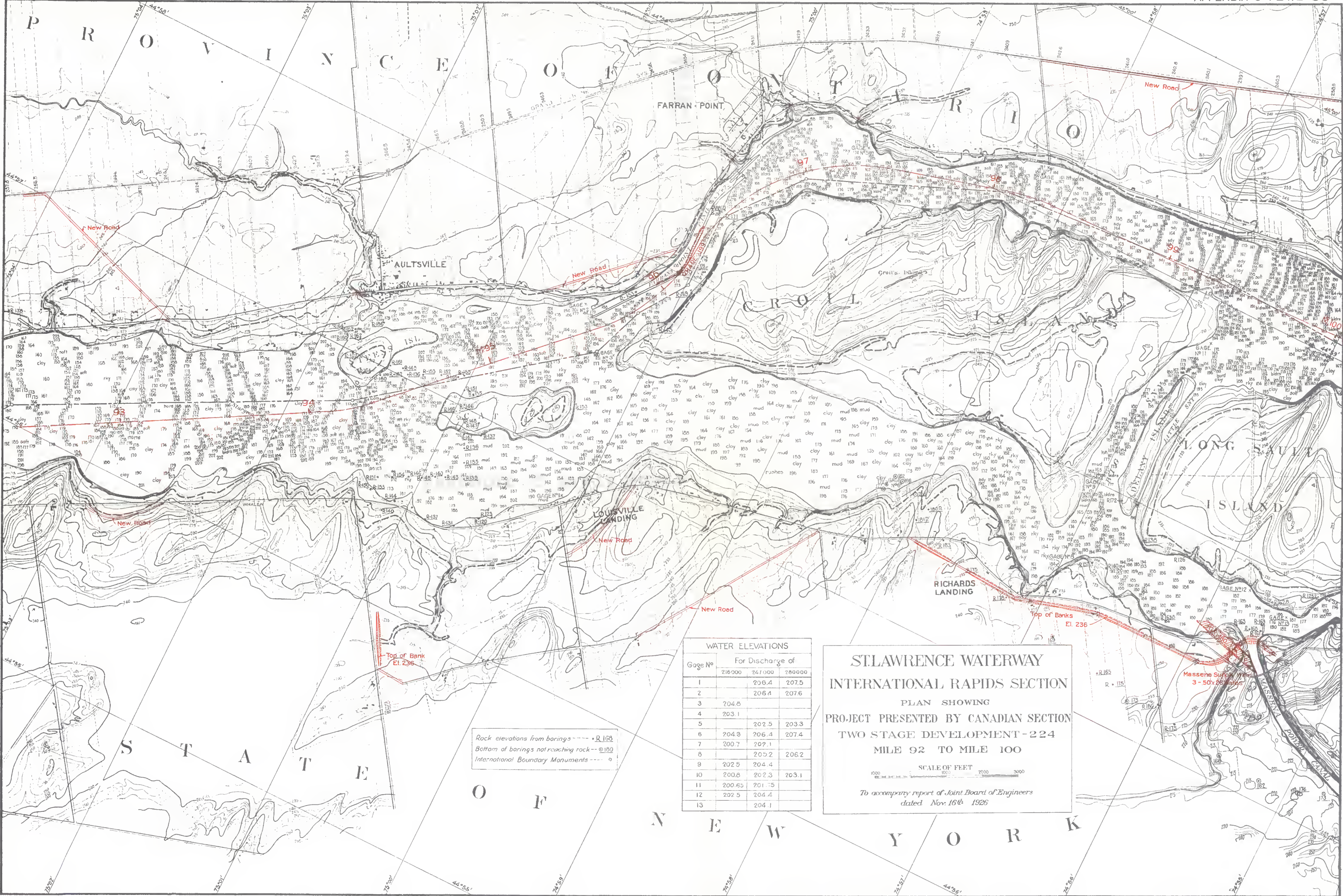
Note: Water Levels obtained from Records supplied by Dept. of Marine & Fisheries.











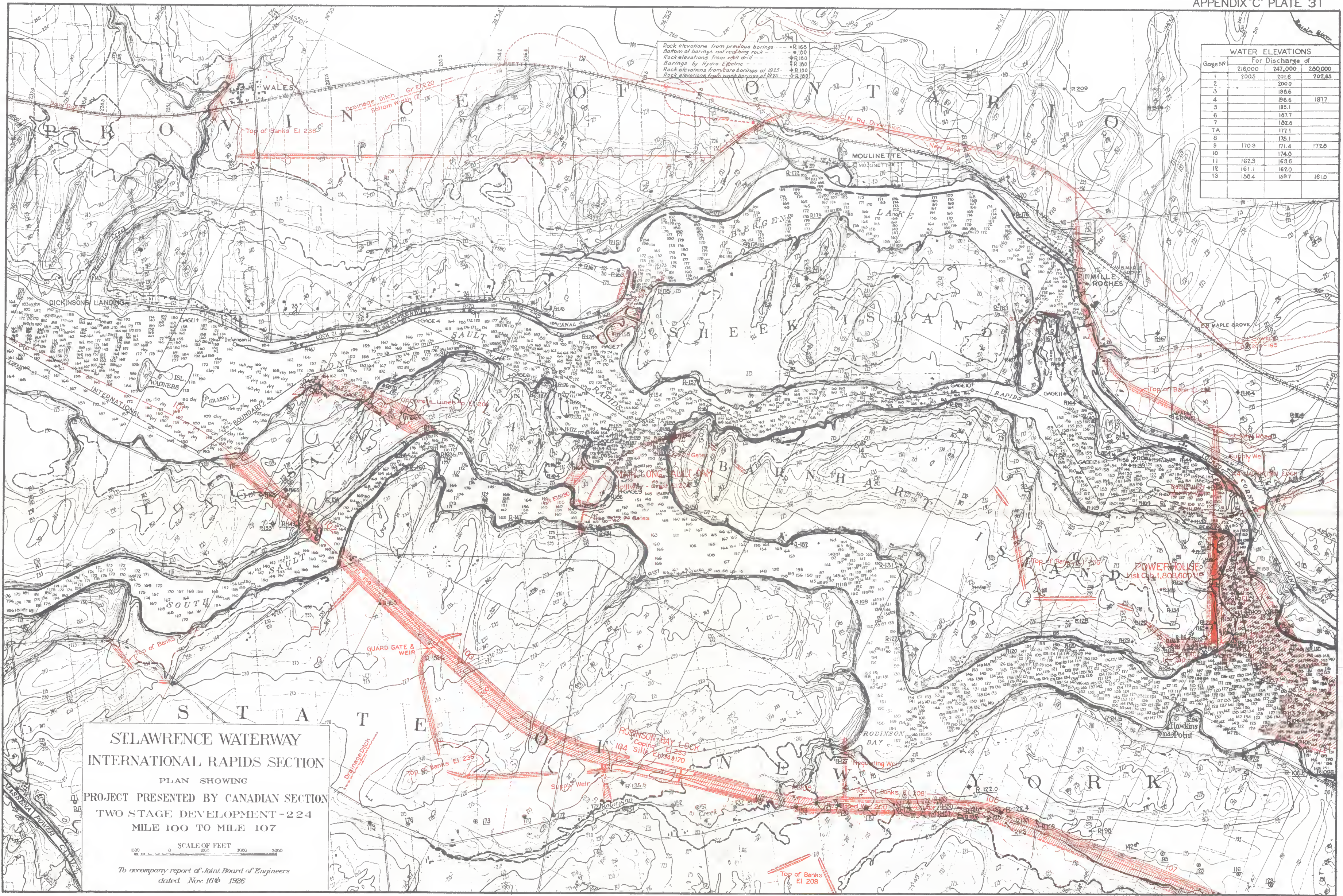
Rock elevations from borings ---- • R168
Bottom of borings not reaching rock -- • R169
International Boundary Monuments ---- •

WATER ELEVATIONS			
Gage No	For Discharge of		
	216000	241000	280000
1		206.4	207.5
2		206.4	207.6
3	204.6		
4	203.1		
5		202.5	203.3
6	204.3	206.4	207.4
7	200.7	207.1	
8		205.2	206.2
9	202.5	204.4	
10	200.8	202.3	203.1
11	200.65	201.75	
12	202.5	204.4	
13		204.1	

ST. LAWRENCE WATERWAY
INTERNATIONAL RAPIDS SECTION
PLAN SHOWING
PROJECT PRESENTED BY CANADIAN SECTION
TWO STAGE DEVELOPMENT-224
MILE 92 TO MILE 100

SCALE OF FEET
1000 1500 2000 3000

To accompany report of Joint Board of Engineers
dated Nov. 16th 1926





ST. LAWRENCE WATERWAY
INTERNATIONAL RAPIDS SECTION
PLAN SHOWING
PROJECT PRESENTED BY CANADIAN SECTION
TWO STAGE DEVELOPMENT-224
MILE 107 TO MILE 108
SCALE OF FEET
0 1000 2000 3000
To accompany report of Joint Board of Engineers
dated Nov. 16th 1926

ST. LAWRENCE WATERWAY
INTERNATIONAL RAPIDS SECTION

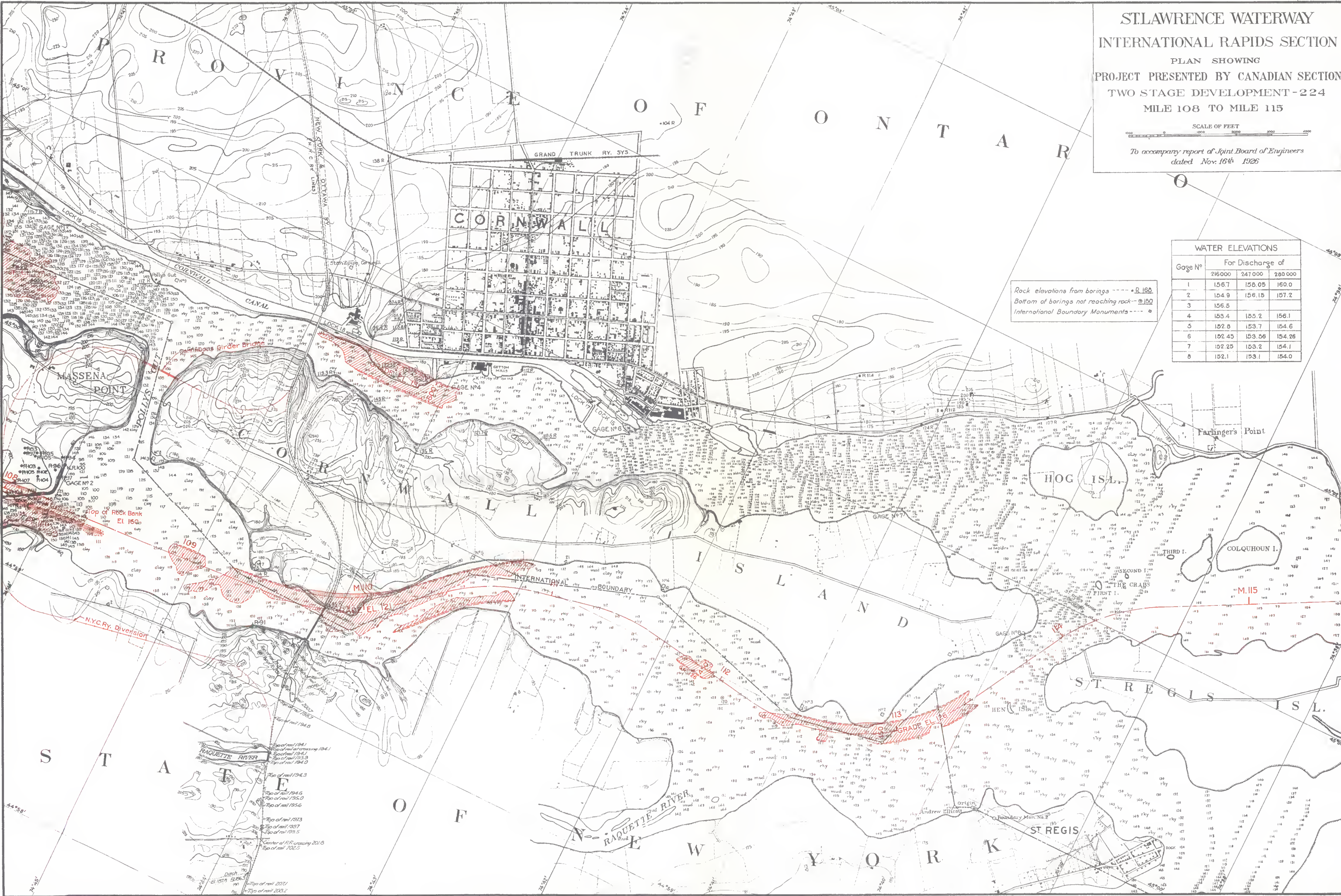
PLAN SHOWING
PROJECT PRESENTED BY CANADIAN SECTION
TWO STAGE DEVELOPMENT - 224
MILE 108 TO MILE 115

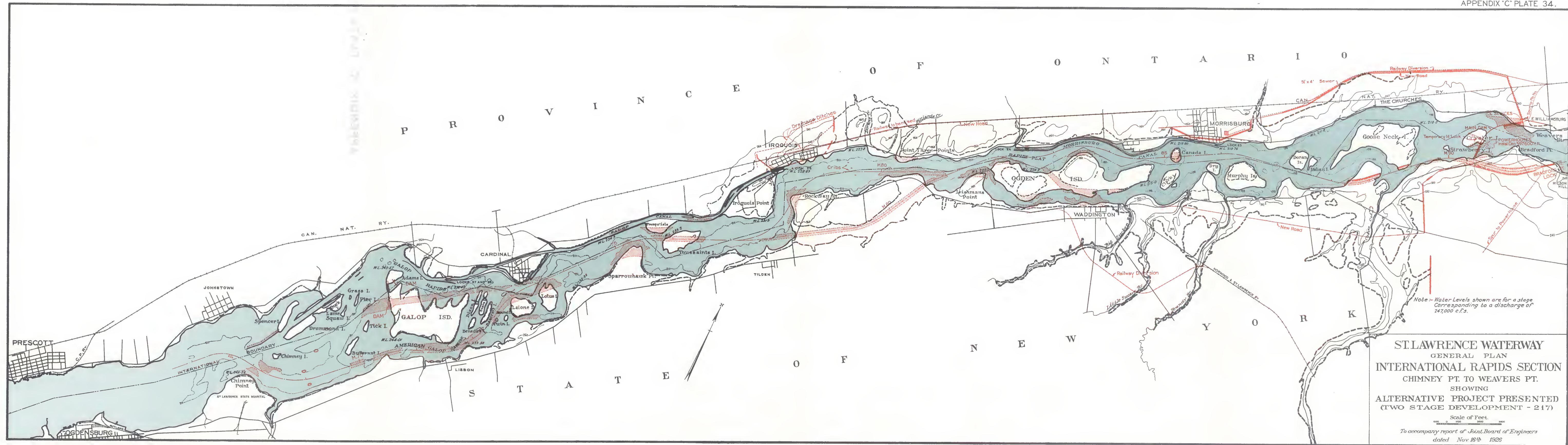
SCALE OF FEET
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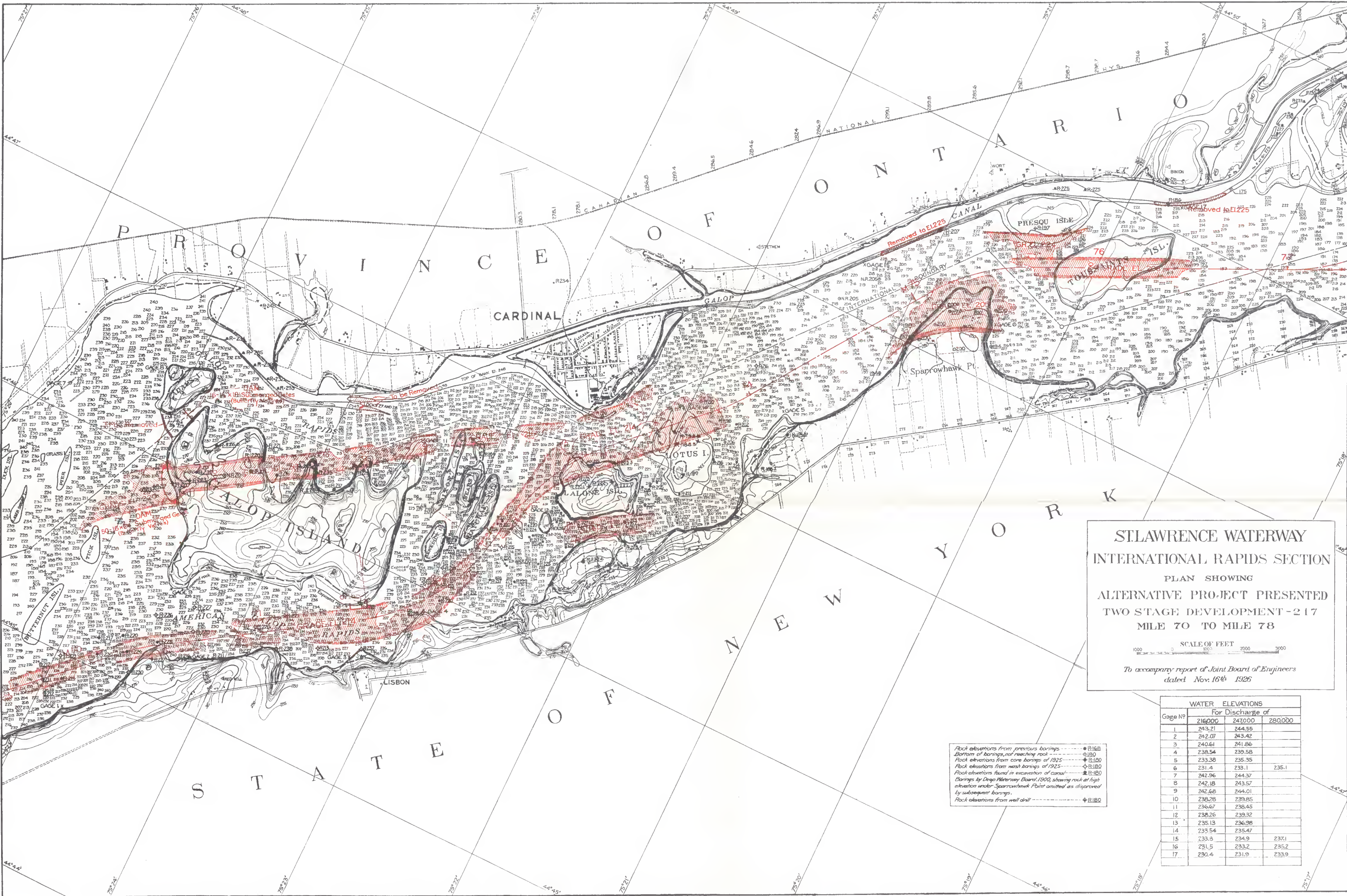
To accompany report of Joint Board of Engineers
dated Nov. 16th 1926

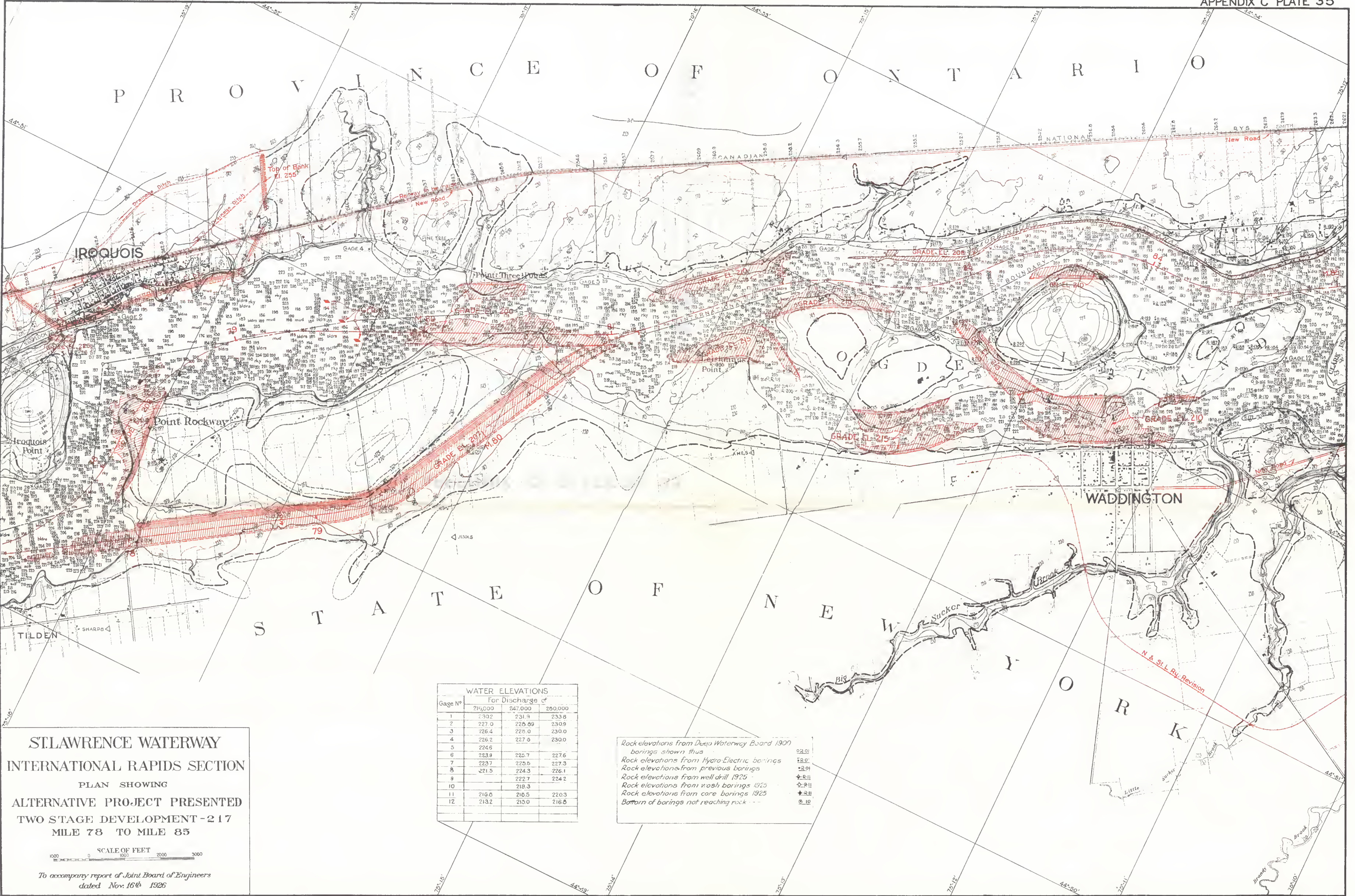
WATER ELEVATIONS			
Gage No.	For Discharge of		
	216,000	247,000	280,000
1	156.7	158.05	160.0
2	154.9	156.15	157.2
3	156.5		
4	153.4	155.2	156.1
5	152.8	153.7	154.6
6	152.45	153.56	154.26
7	152.25	153.2	154.1
8	152.1	153.1	154.0

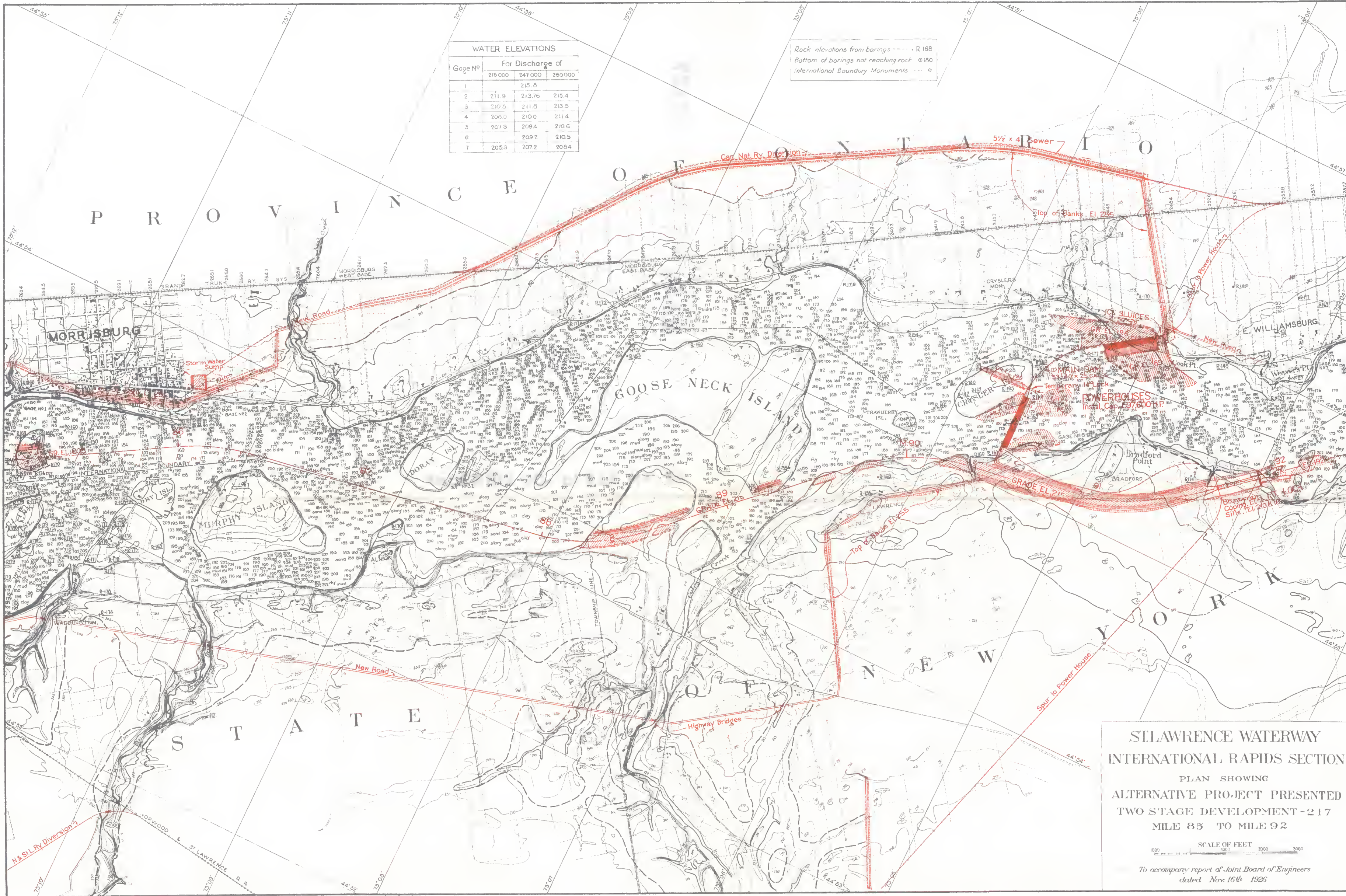
Rock elevations from borings ---- • R 150
Bottom of borings not reaching rock --- • B 150
International Boundary Monuments ---- •

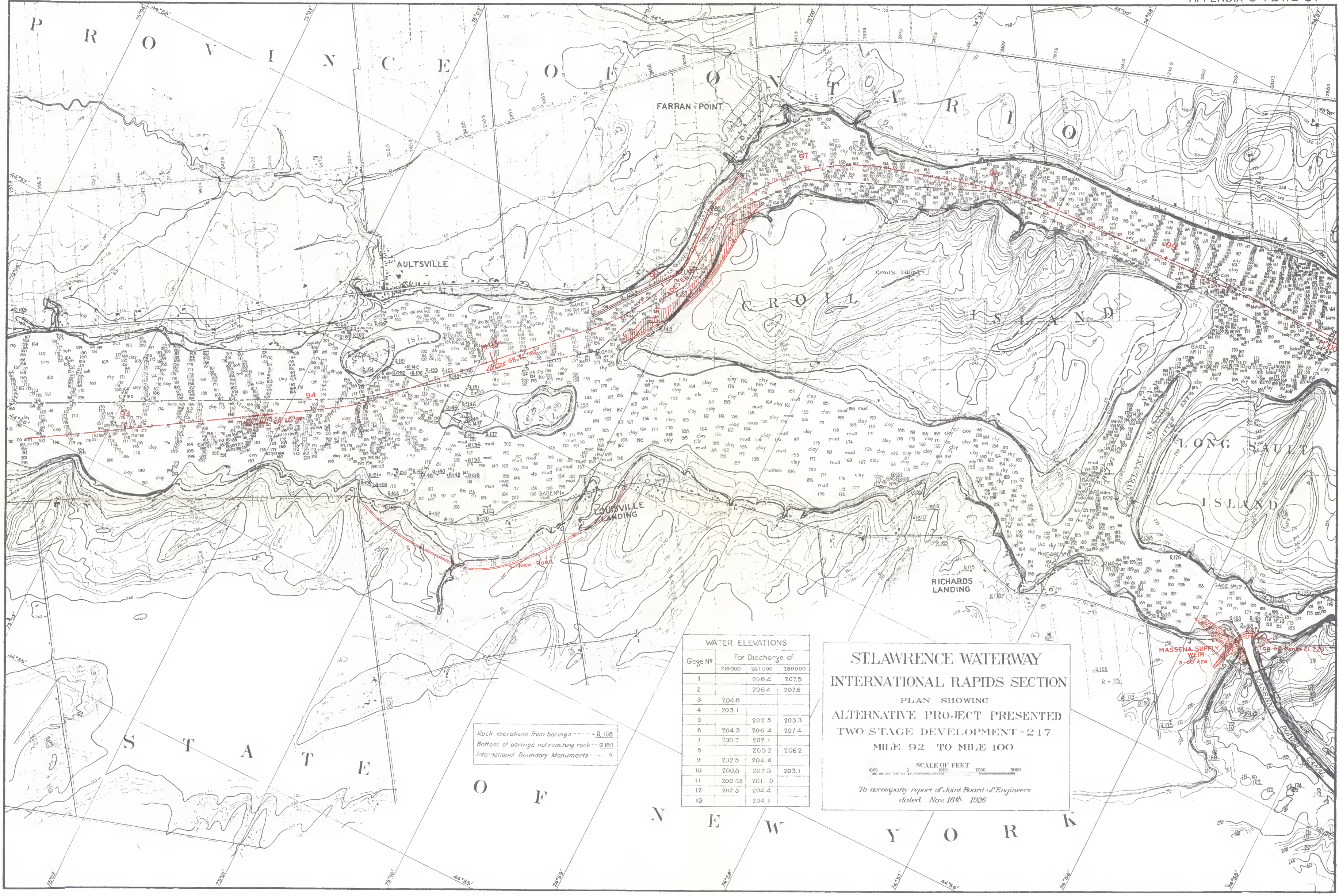












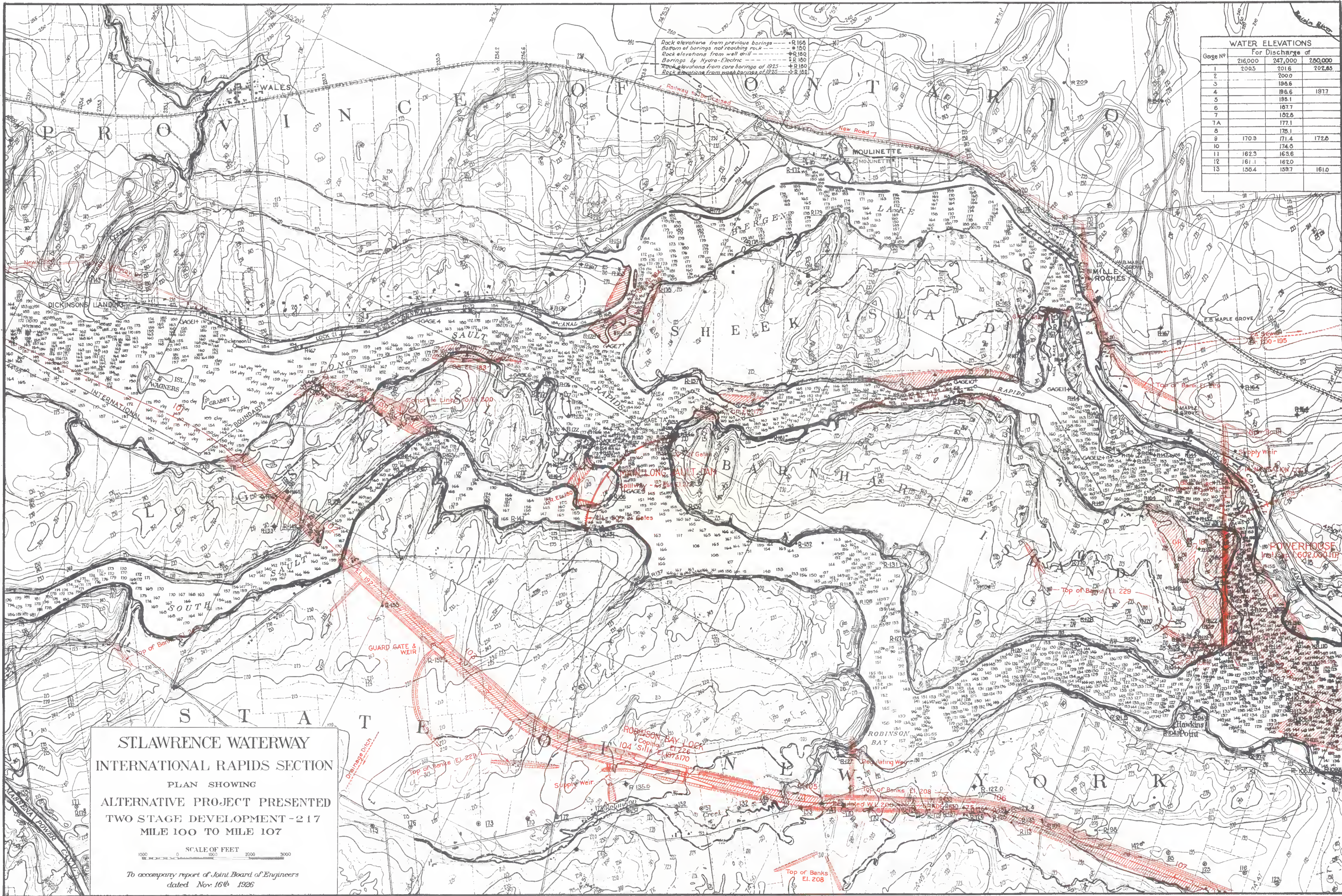
WATER ELEVATIONS			
Gage No	For Discharge of		
	216,000	247,000	280,000
1	206.4	207.5	
2	206.4	207.6	
3	204.6		
4	203.1		
5	202.5	203.3	
6	204.3	206.4	207.4
7	200.7	207.1	
8		205.2	206.2
9	202.5	204.4	
10	200.6	202.3	203.1
11	200.65	201.5	
12	202.5	204.4	
13		204.1	

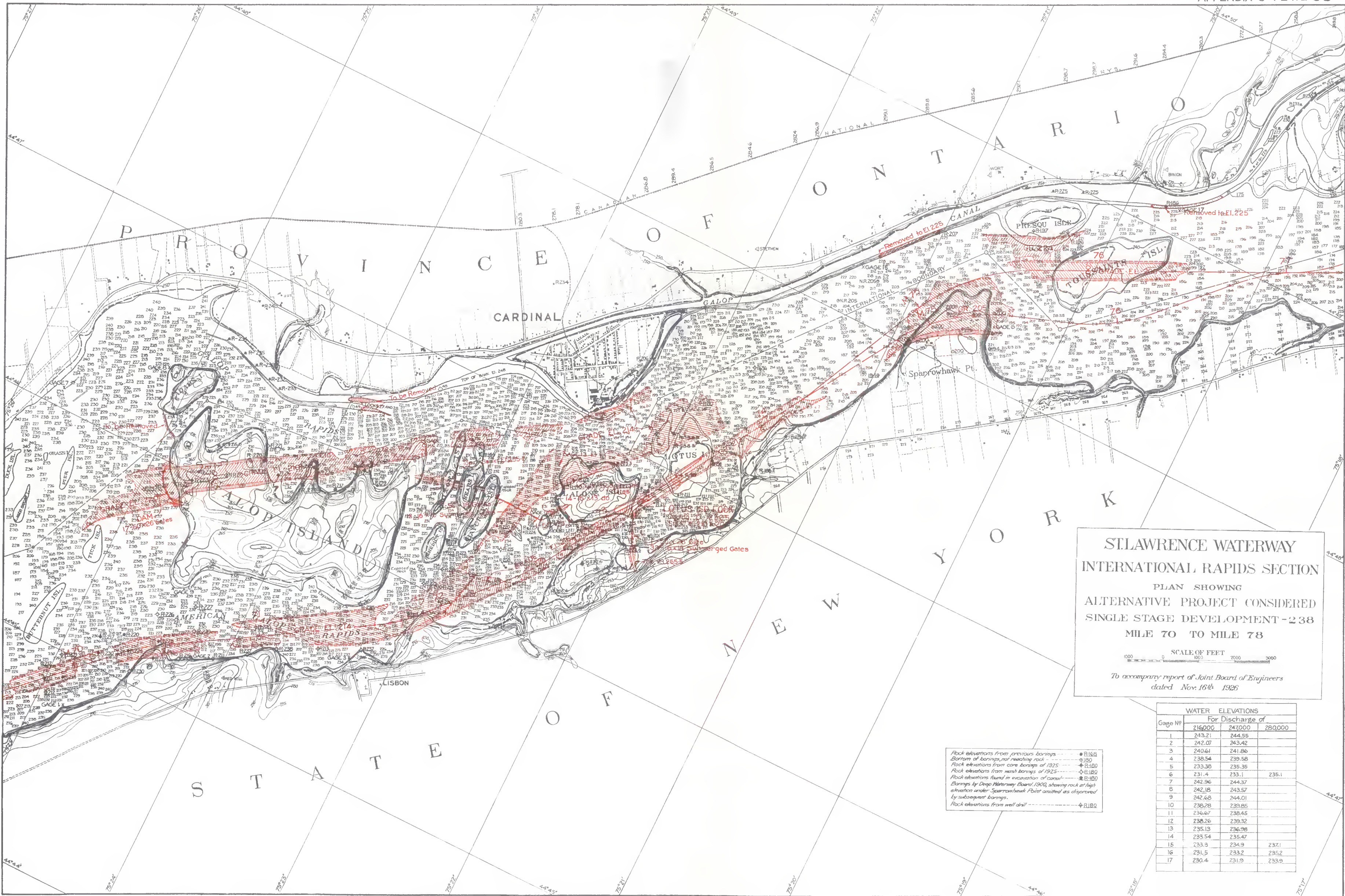
ST. LAWRENCE WATERWAY
INTERNATIONAL RAPIDS SECTION
PLAN SHOWING
ALTERNATIVE PROJECT PRESENTED
TWO STAGE DEVELOPMENT - 217
MILE 92 TO MILE 100

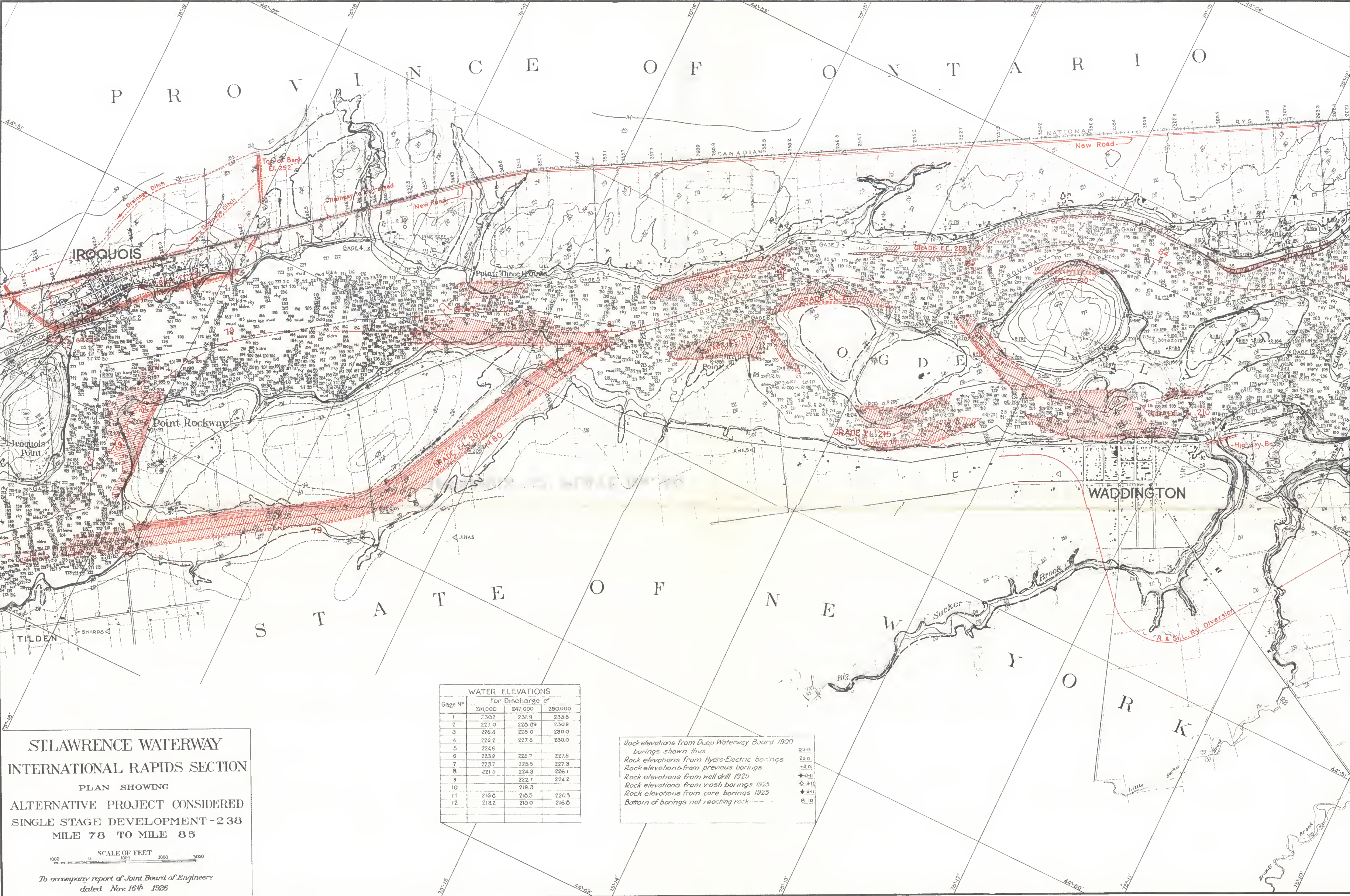
SCALE OF FEET
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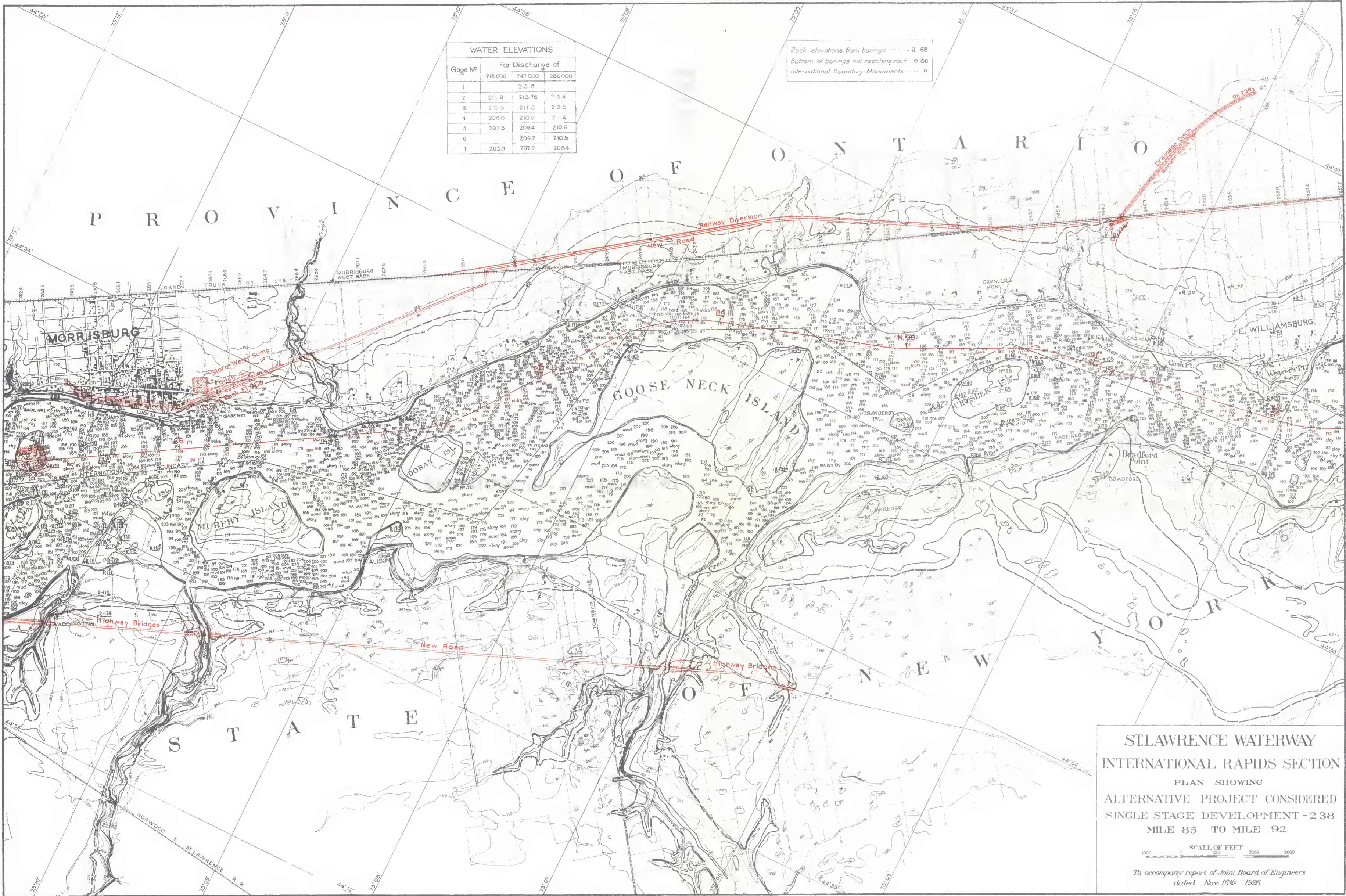
To accompany report of Joint Board of Engineers
dated Nov. 16th 1926

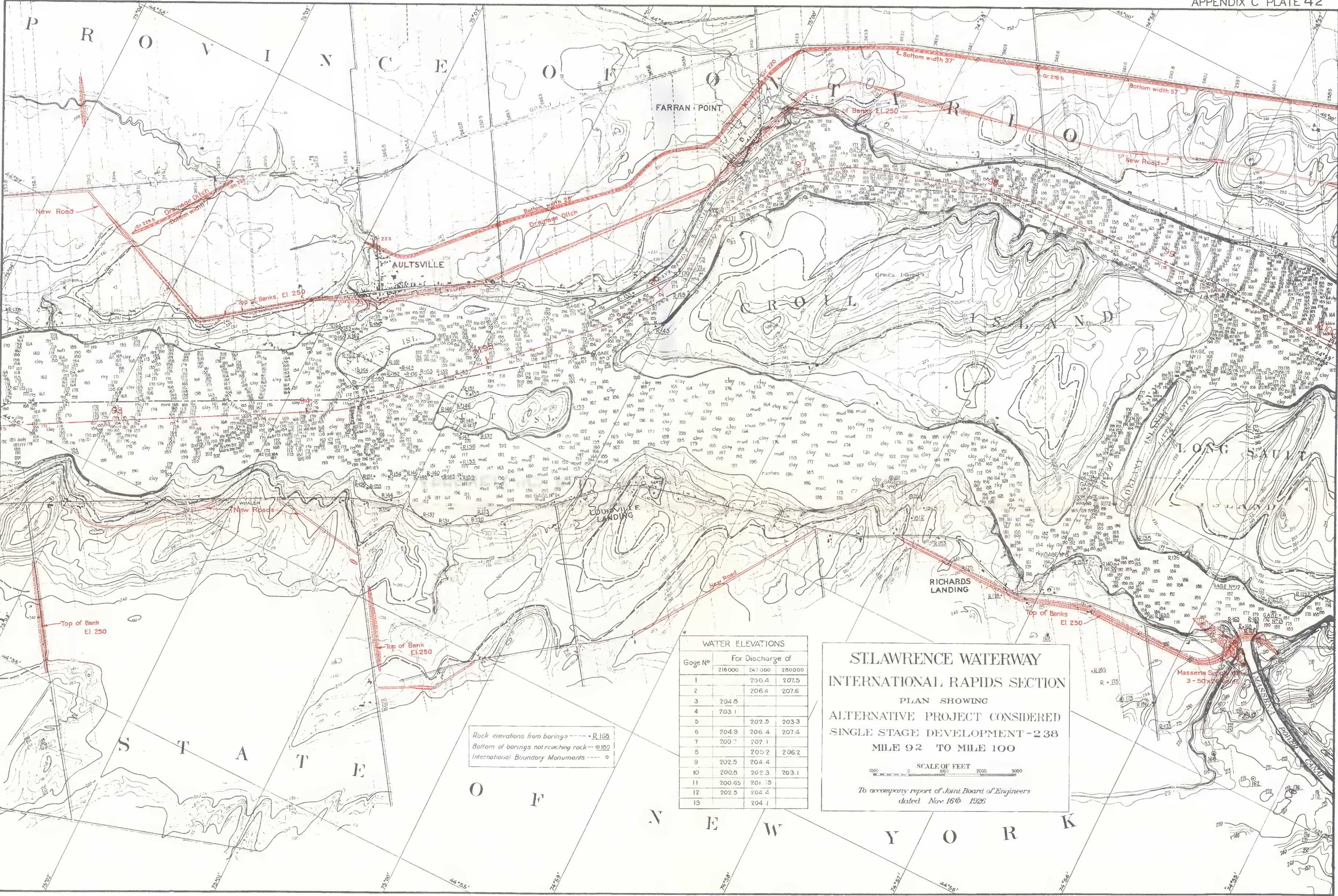
Rock elevations from borings --- R 168
Bottom of borings not reaching rock --- R 169
International Boundary Monuments --- 9







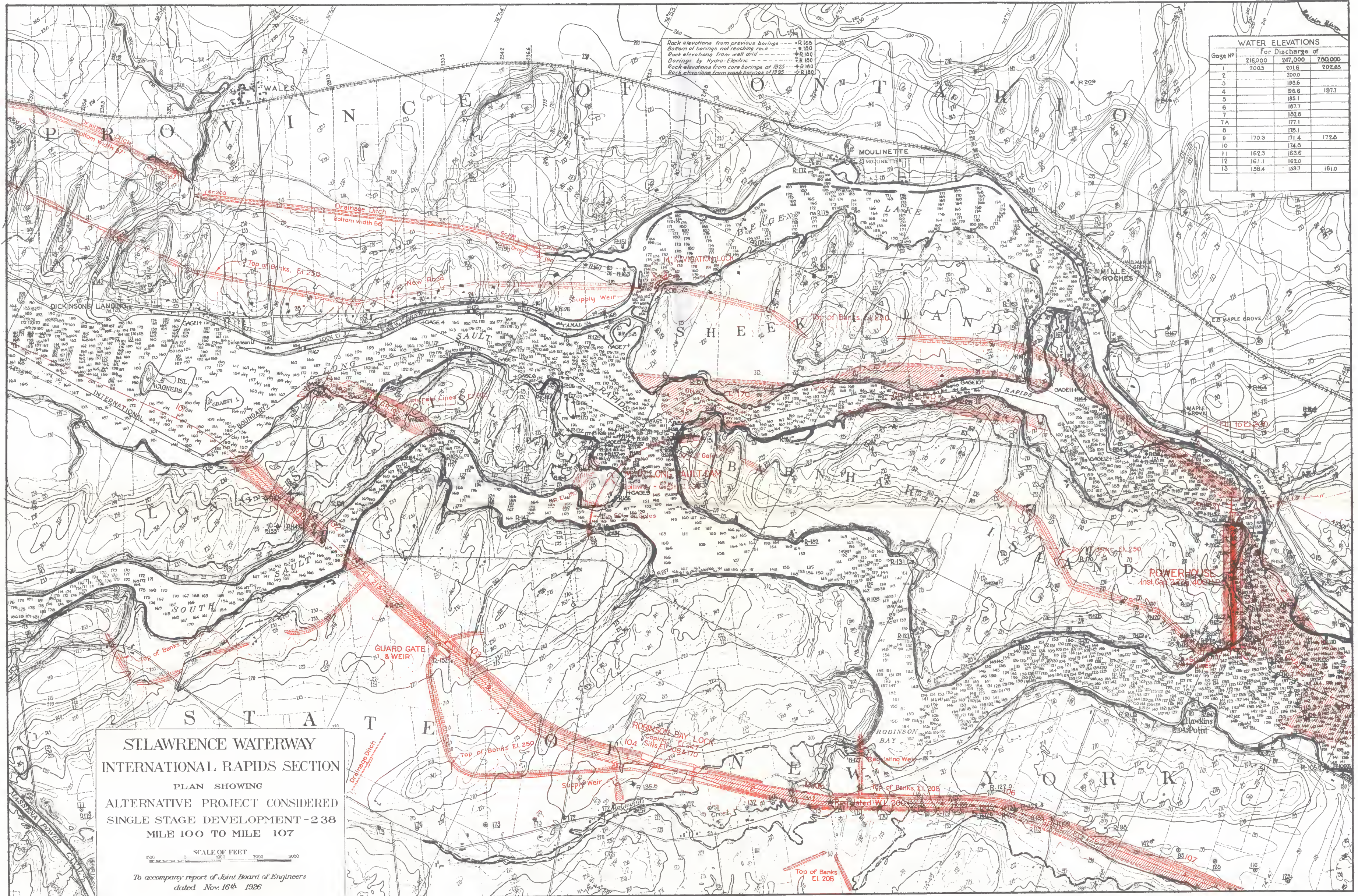


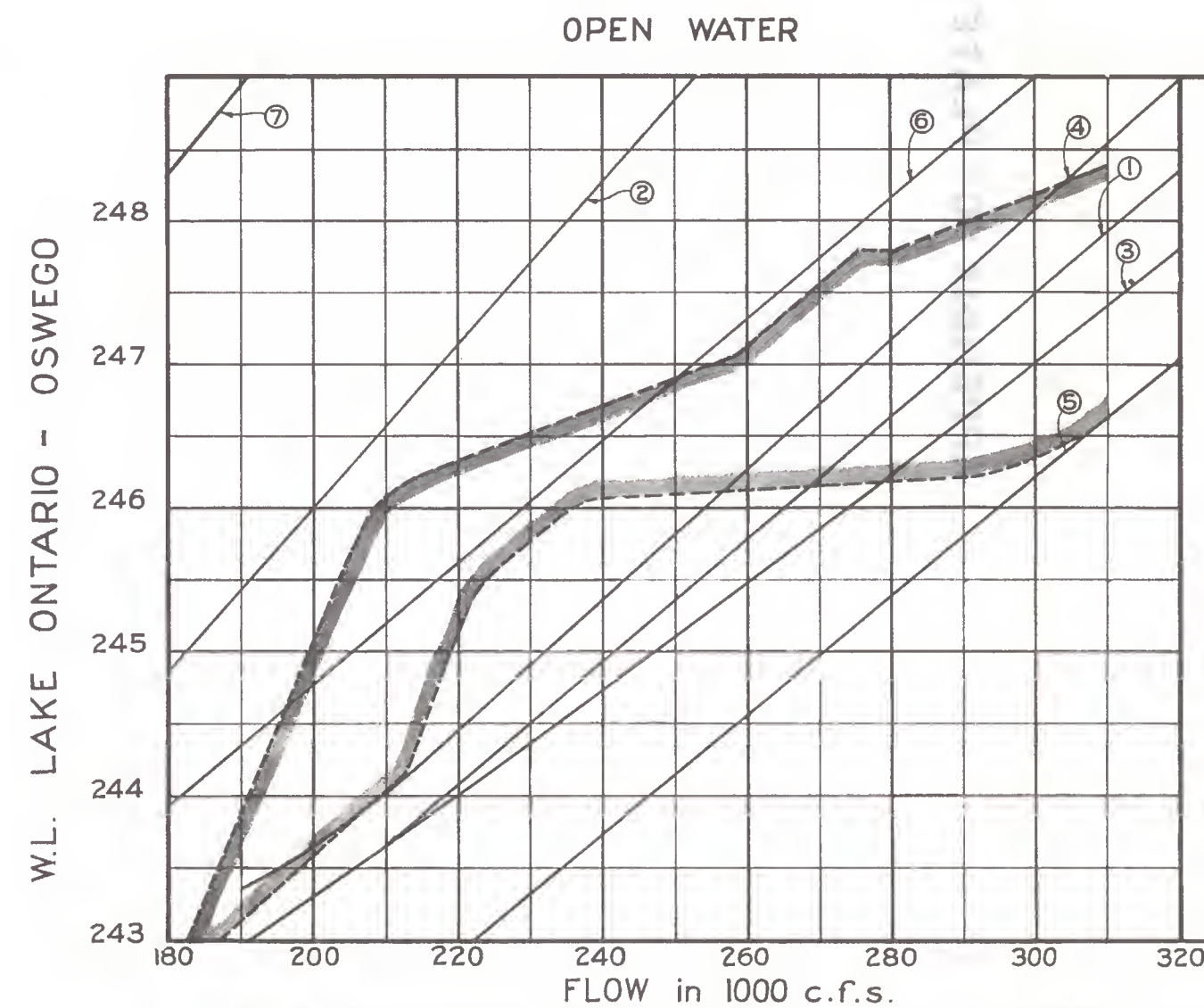


WATER ELEVATIONS			
Gage No.	For Discharge of		
	216 000	247 000	280 000
1		206.4	207.5
2		206.4	207.6
3	204.5		
4	203.1		
5		202.5	203.3
6	204.3	206.4	207.4
7	200.7	207.1	
8		205.2	206.2
9	202.5	204.4	
10	200.8	202.3	203.1
11	200.65	201.5	
12	202.5	204.4	
13	204.1		

ST LAWRENCE WATERWAY
INTERNATIONAL RAPIDS SECTION
PLAN SHOWING
ALTERNATIVE PROJECT CONSIDERED
SINGLE STAGE DEVELOPMENT - 238
MILE 92 TO MILE 100
SCALE OF FEET
1000 2000 3000
To accompany report of Joint Board of Engineers
dated Nov. 16th 1926

Rock elevations from borings ----- R. 165
Bottom of borings not reaching rock -- @ 180
International Boundary Monuments -----

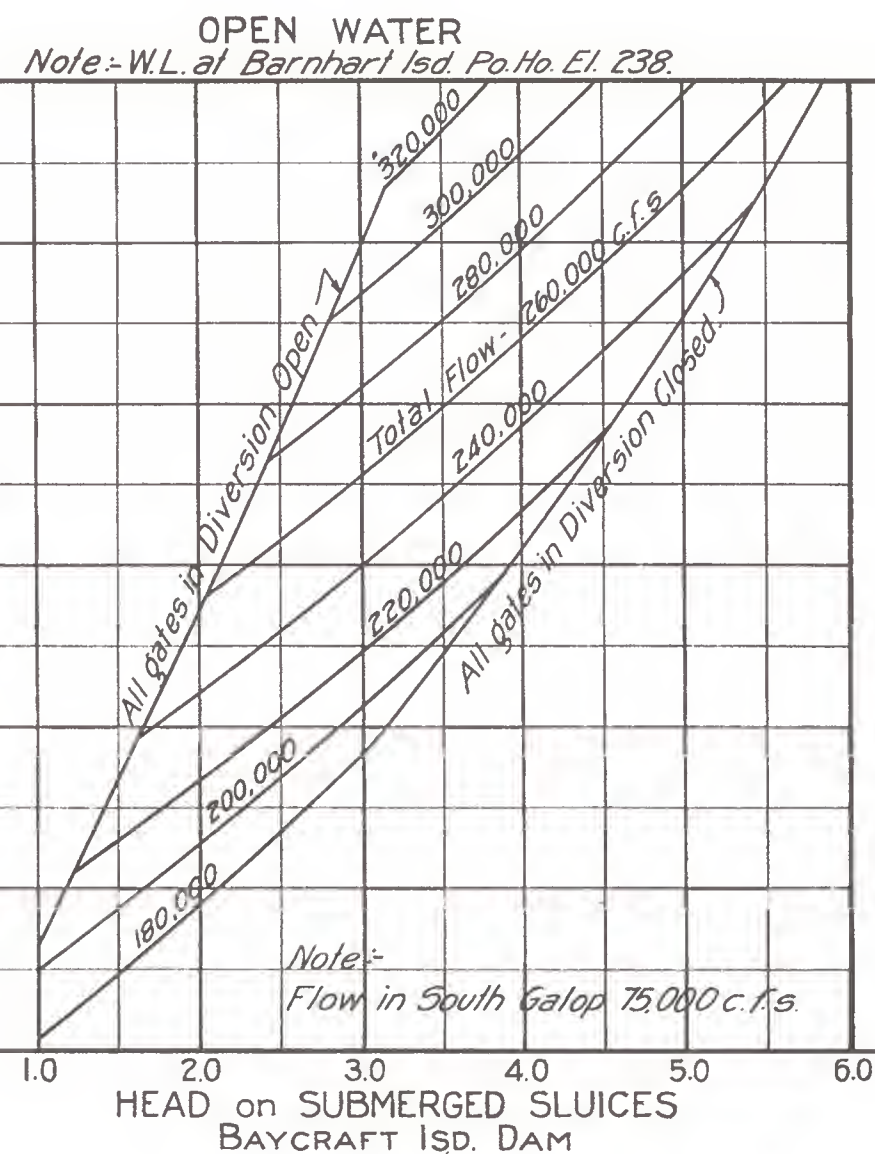




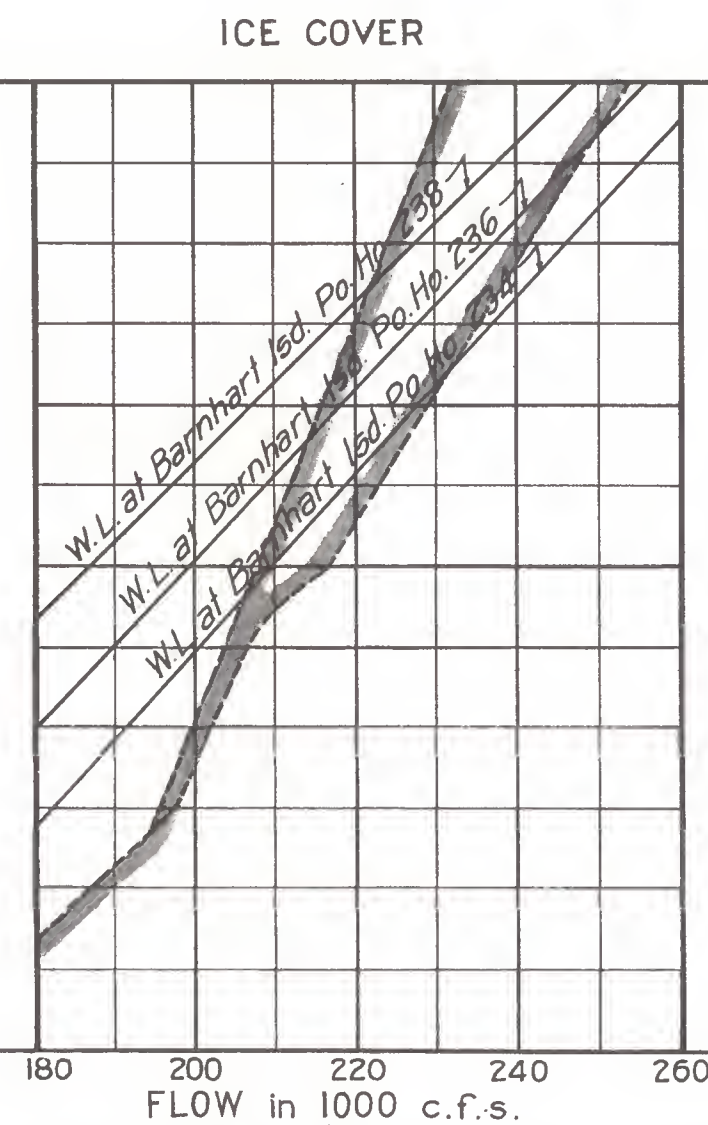
- ① W.L. Barnhart Isd. Po. No. 238 - All gates in diversion open - Flow in South Galap 75,000 c.f.s.
- ② " " " " " - All gates in diversion closed - " " " " "
- ③ " " " " " - All gates in both dams open.
- ④ " " " " " - One-half gates in diversion open - Flow in South Galap 75,000 c.f.s.
- ⑤ " " " " " 236 - All gates in both dams open.
- ⑥ " " " " " 238 - All gates in diversion closed. All gates in South Galap open.
- ⑦ " " " " " - All gates in both dams closed.

All gates in Diversion closed All gates in South Galop open.			All gates in both dams open.		
W.L. Lake Ont.	Q-South Galop	H-Sub sluices	W.L. Lake Ont.	Q-South Galop	H-Sub sluices
244.44	100,000	1.8	243.65	75,000	1.0
245.60	110,000	2.15	244.30	80,000	1.15
246.90	120,000	2.55	244.95	85,000	1.3
248.05	130,000	3.0	245.65	90,000	1.45
249.00	138,000	3.4	246.40	95,000	1.6
			247.20	100,000	1.8
			247.80	108,000	2.1

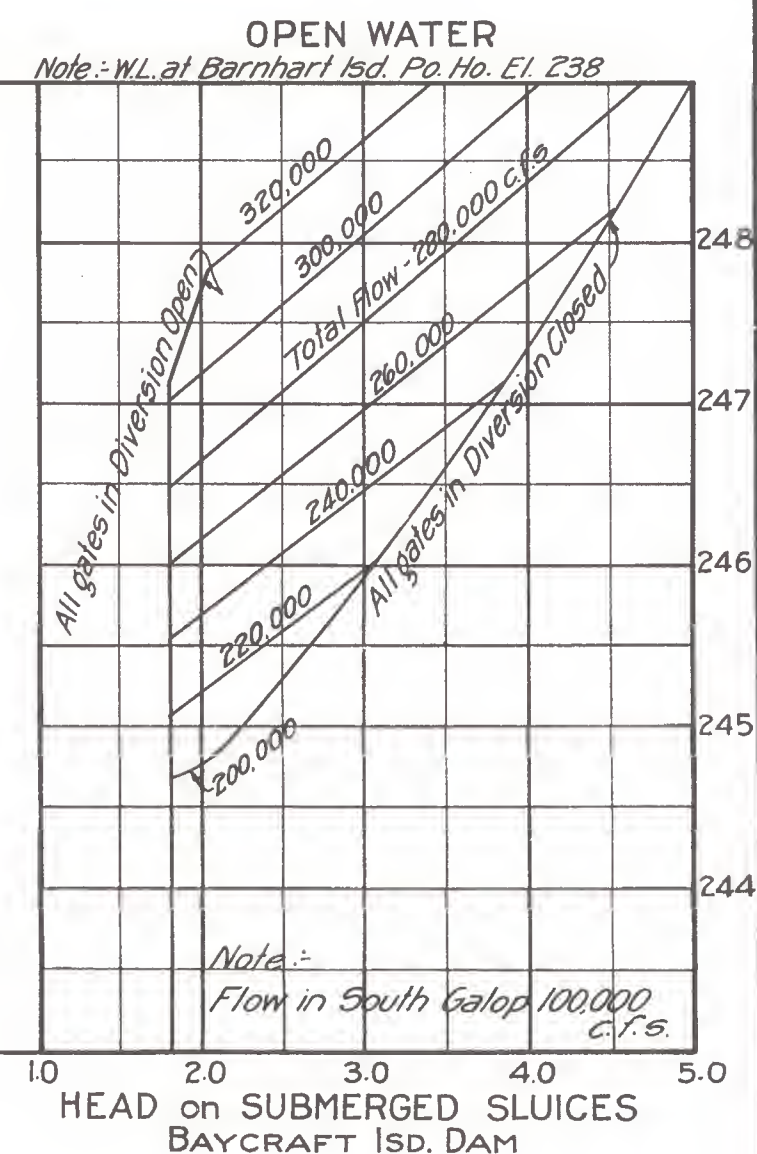
Note:- Shaded portion shows Range between Maximum and Minimum Discharges under regulation - April to December.



Note :- Computations made by Canadian Section.



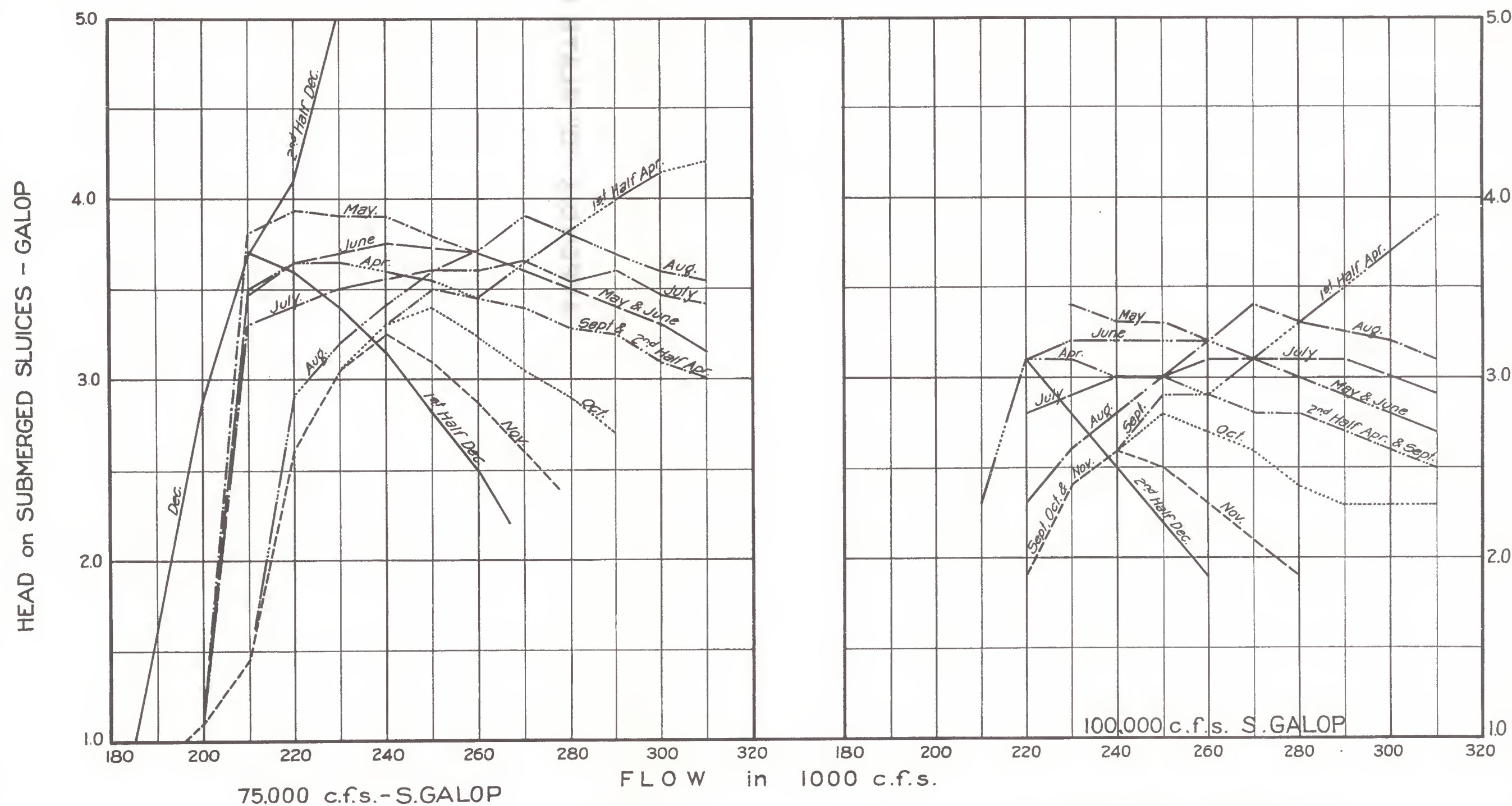
Note :- All gates in Control Dams open. Shaded portion shows Range between Maximum and Minimum Discharges under regulation for 2nd half Dec. Jan & Feb.



ST LAWRENCE WATERWAY "238" SCHEME

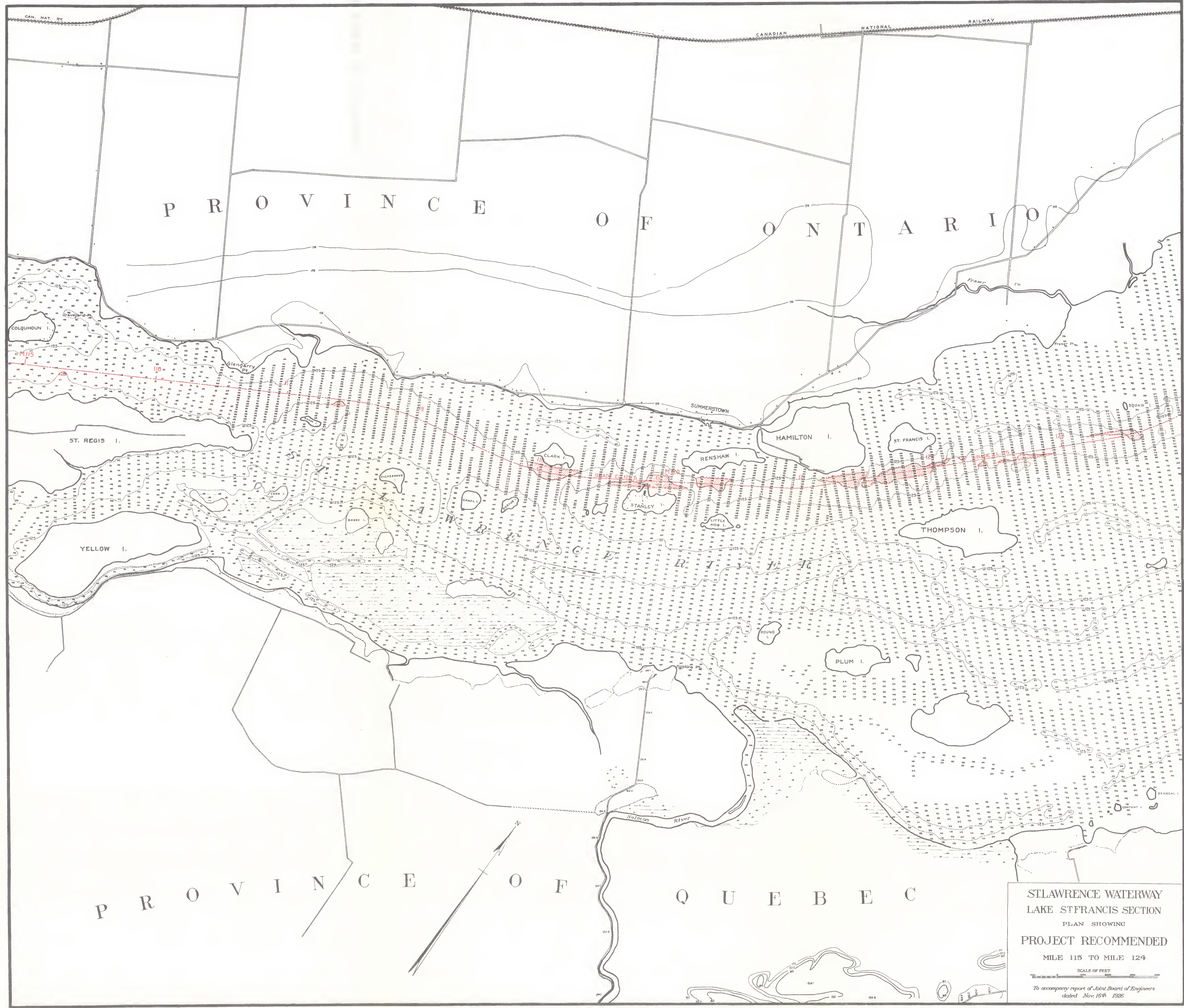
DIAGRAM SHOWING RESULTS OF
BACKWATER CALCULATIONS
Barnhart Isd. Powerhouse to Lake Ontario

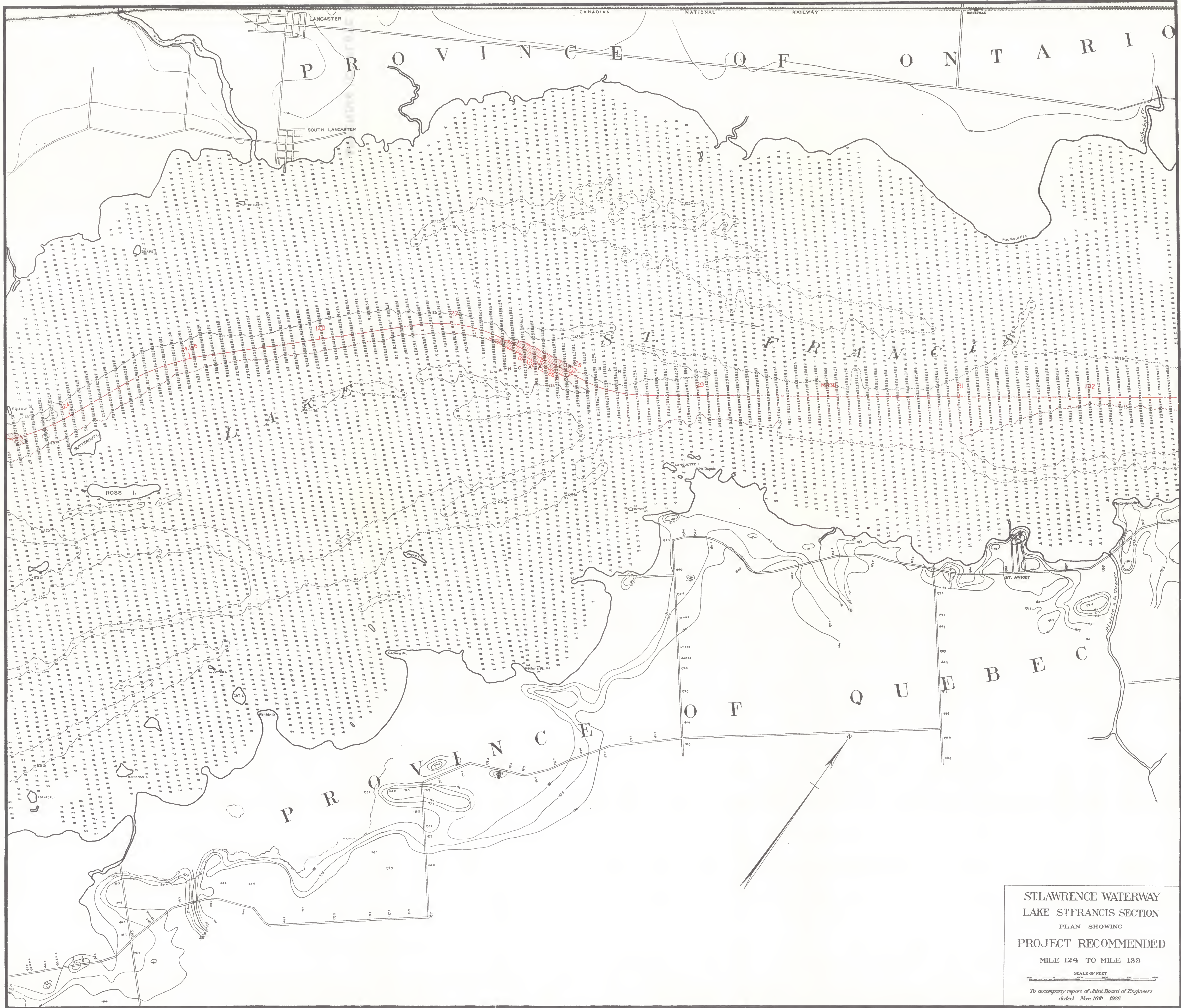
TO ACCOMPANY REPORT OF JOINT BOARD OF ENGINEERS
DATED NOV. 16TH 1926.



Note:- Computations made by Canadian Section.

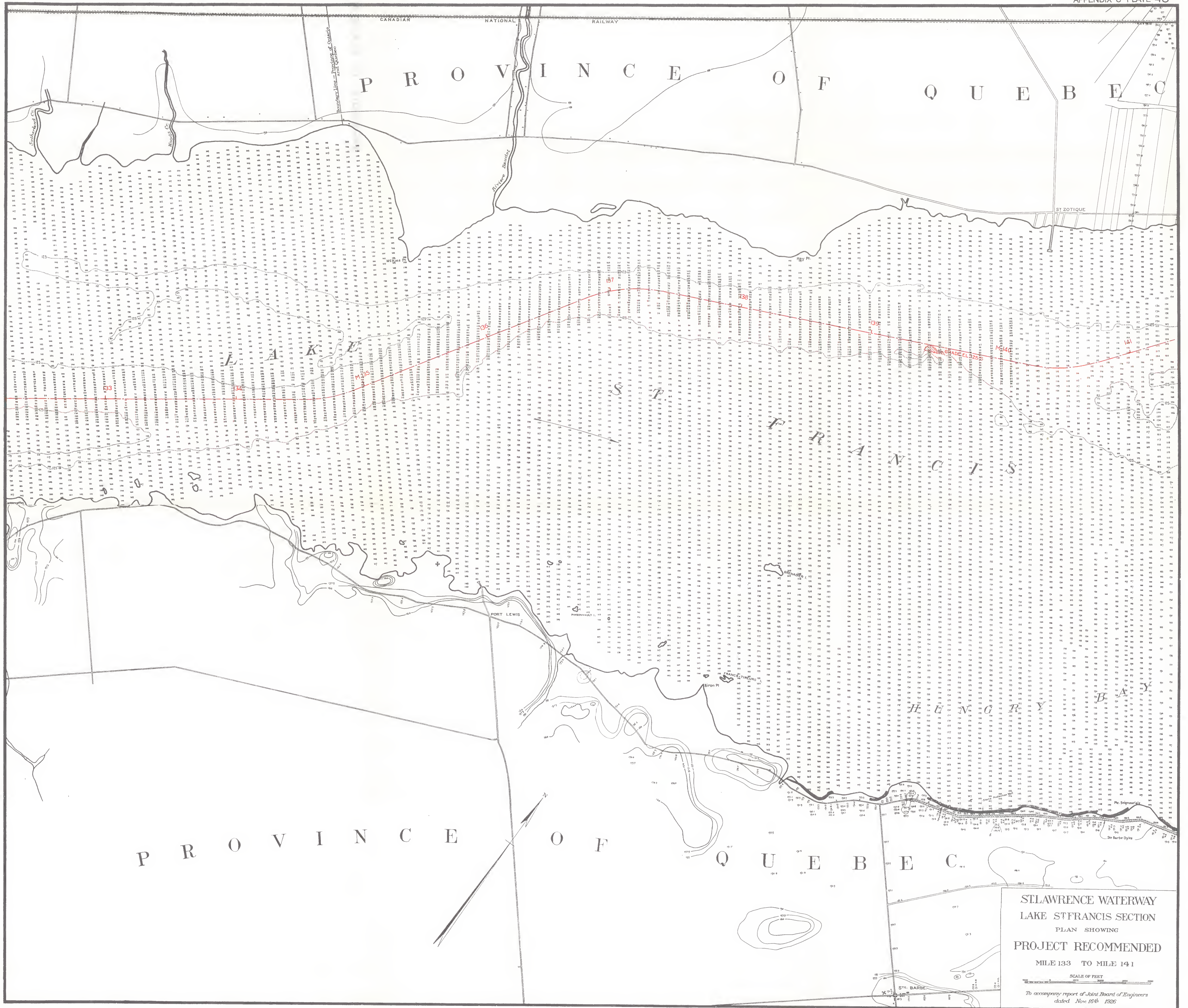
**ST. LAWRENCE WATERWAY
"238" SCHEME**
Diagram showing the relation between
HEAD on SUBMERGED SLUICES at GALOP
and
FLOW under REGULATION
TO ACCOMPANY REPORT OF JOINT BOARD OF ENGINEERS
DATED NOV. 16TH 1926.

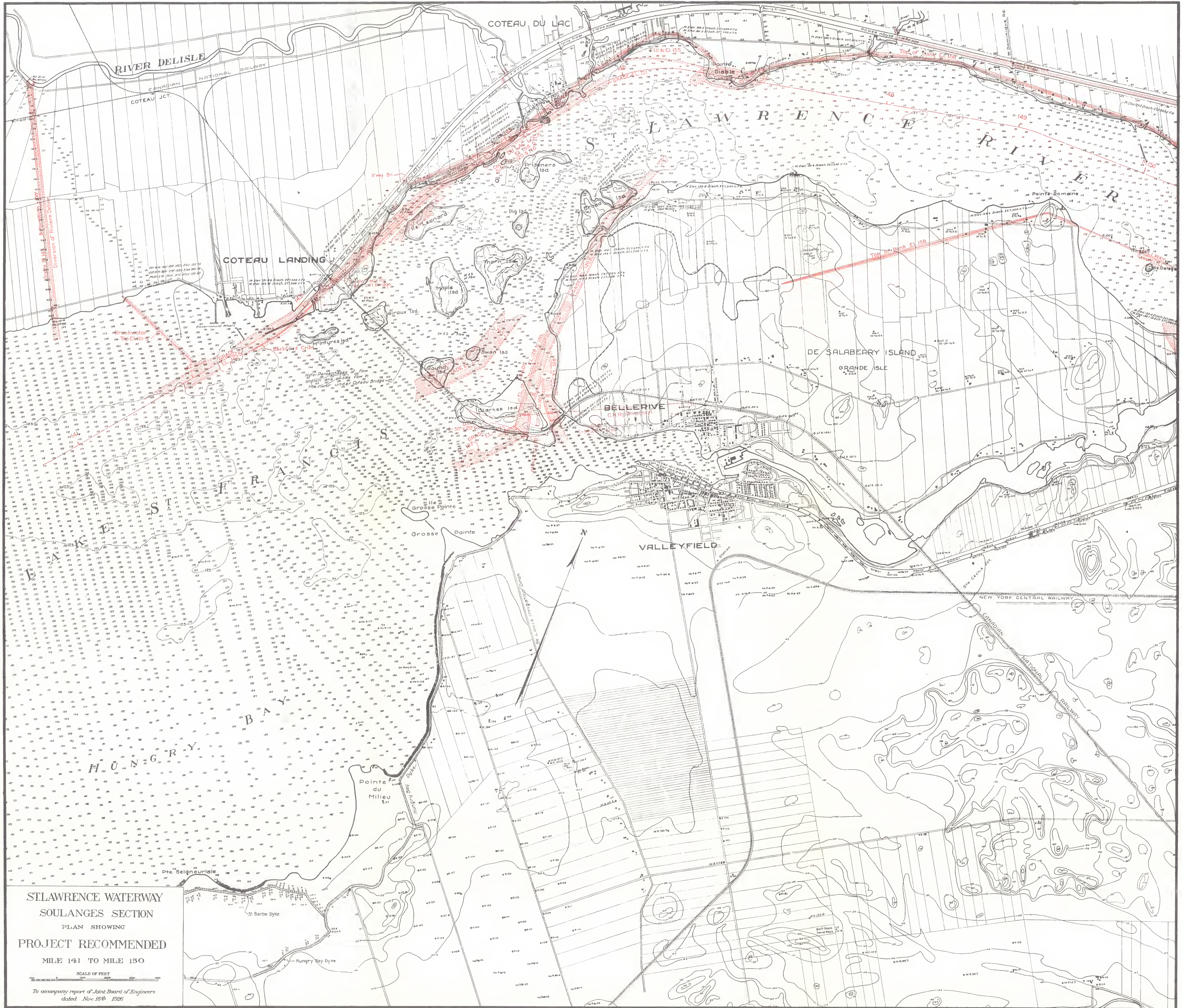




ST. LAWRENCE WATERWAY
LAKE ST. FRANCIS SECTION
PLAN SHOWING
PROJECT RECOMMENDED
MILE 124 TO MILE 133

SCALE OF FEET
0 100 200 300 400 500 600 700 800 900 1000
To accompany report of Joint Board of Engineers
dated Nov. 16th 1926





ST. LAWRENCE WATERWAY

SOULANGES SECTION

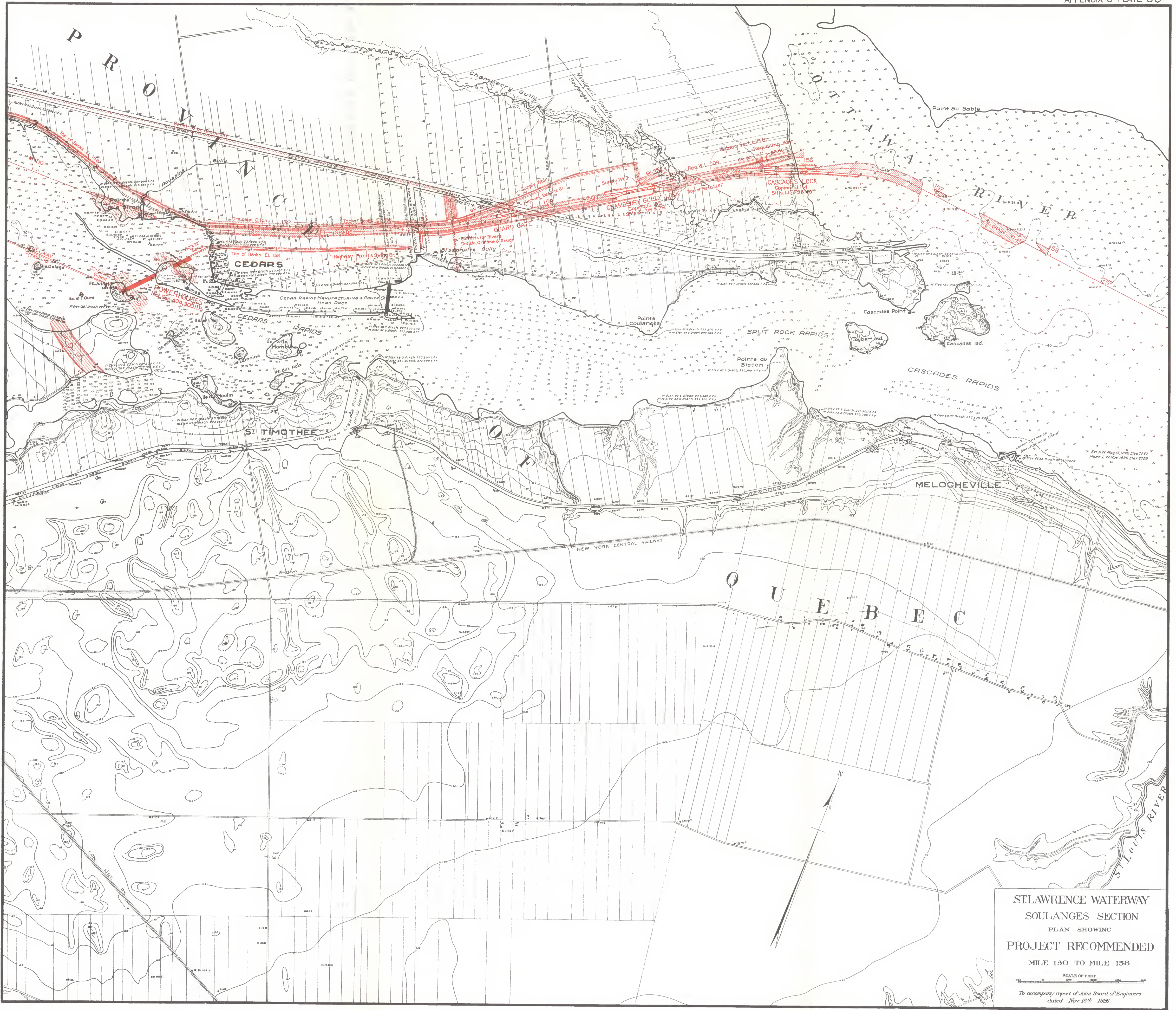
PLAN SHOWING

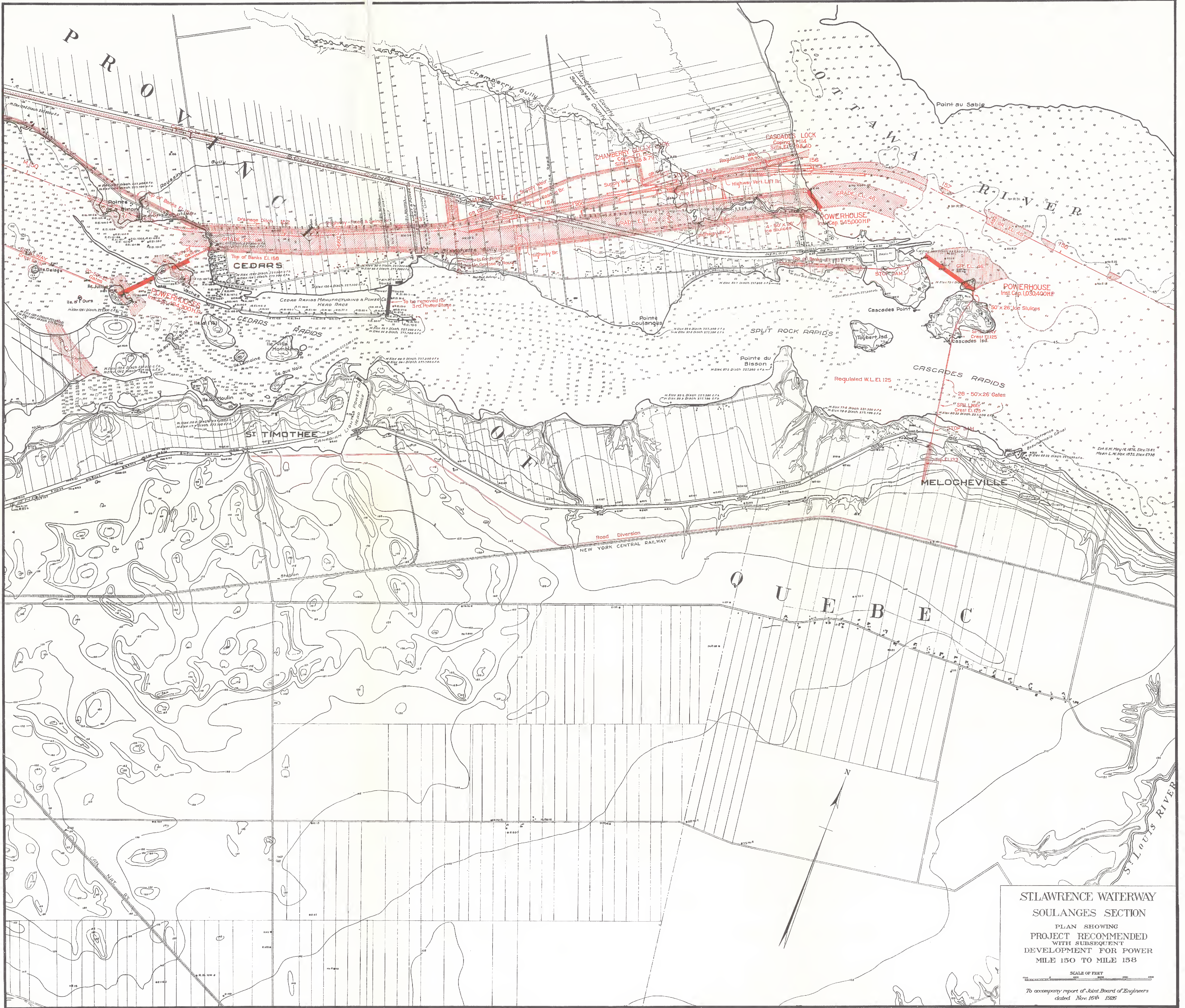
PROJECT RECOMMENDED

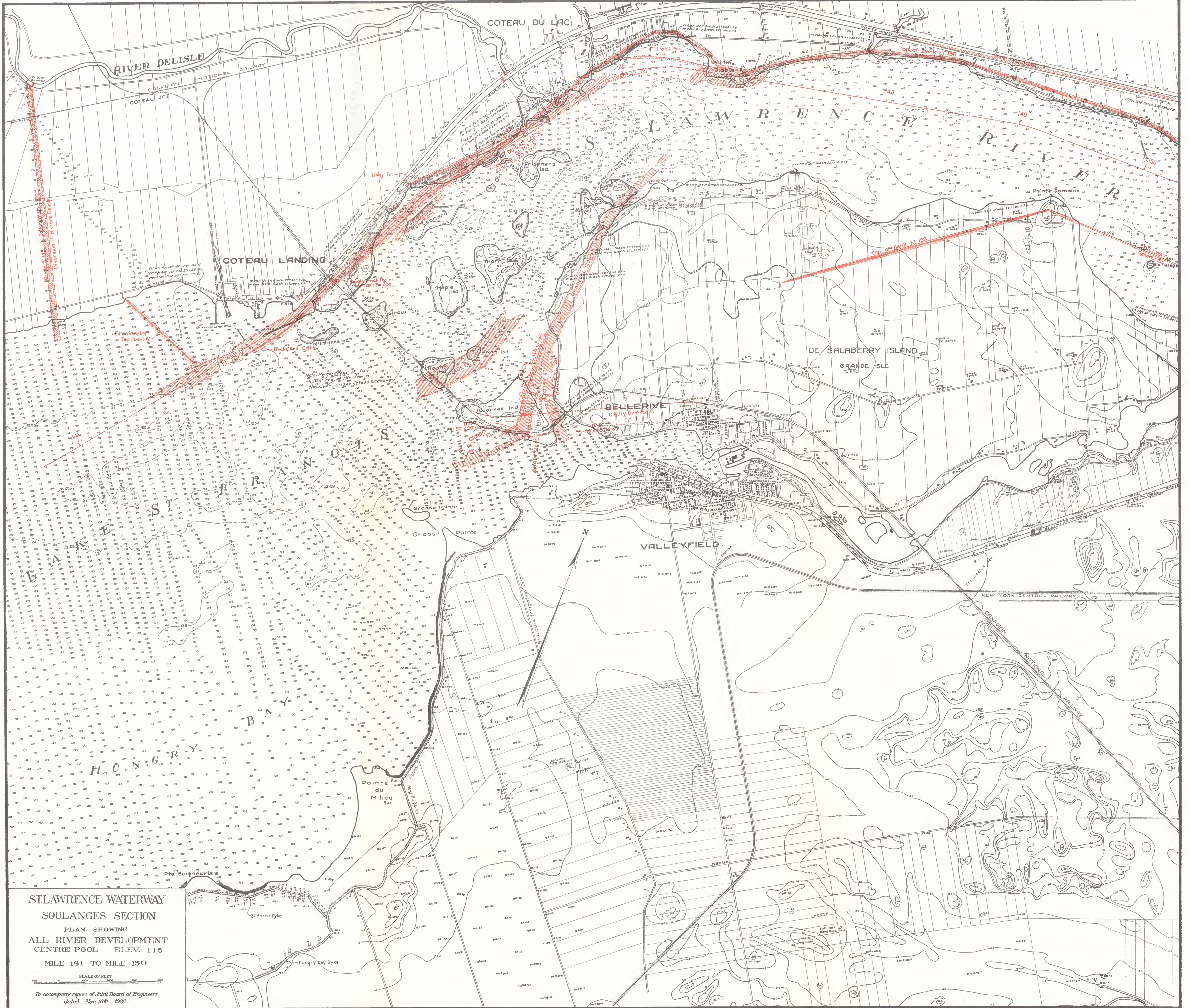
MILE 141 TO MILE 150

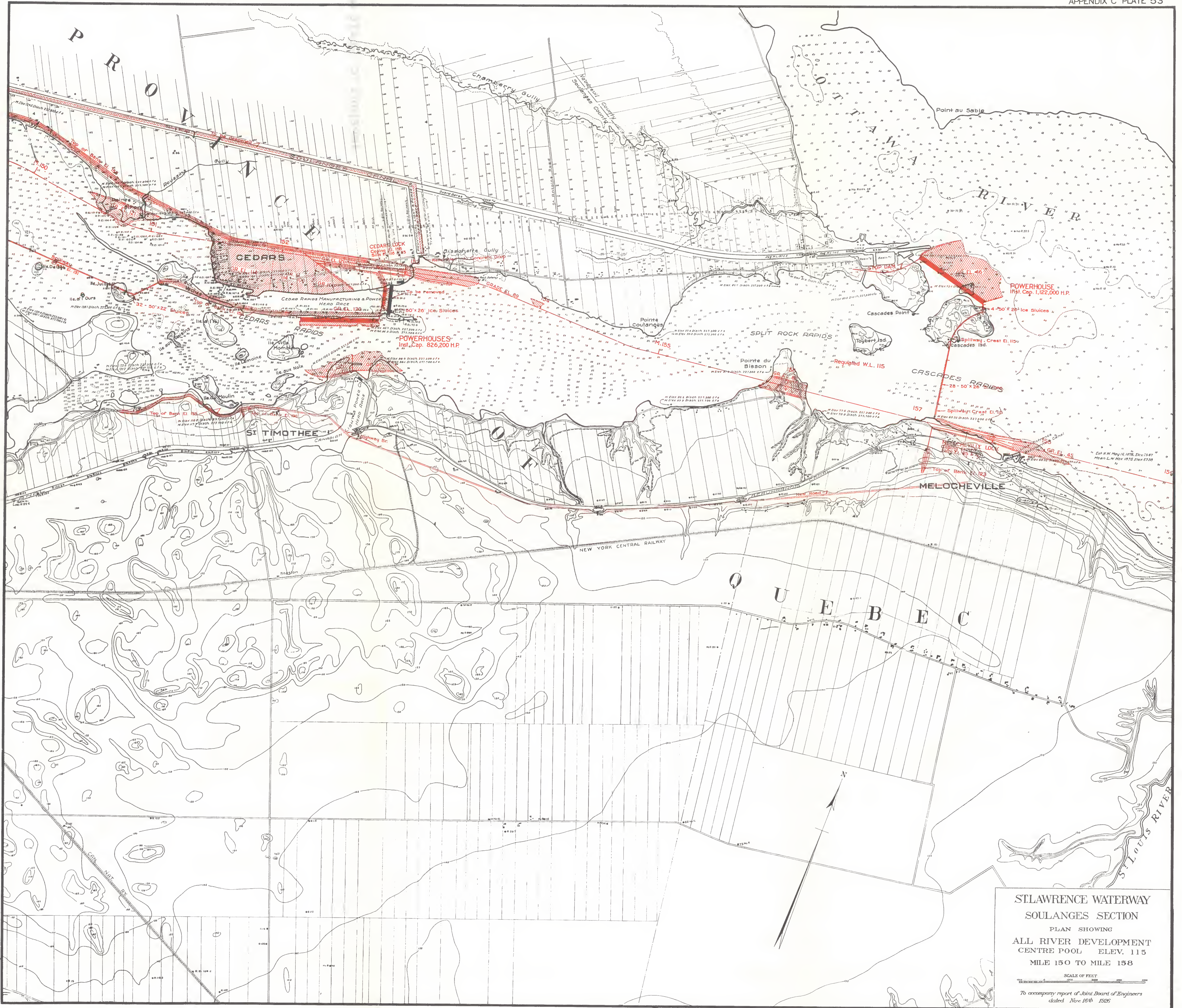
SCALE OF FEET

To accompany report of Joint Board of Engineers
dated Nov. 16th 1926



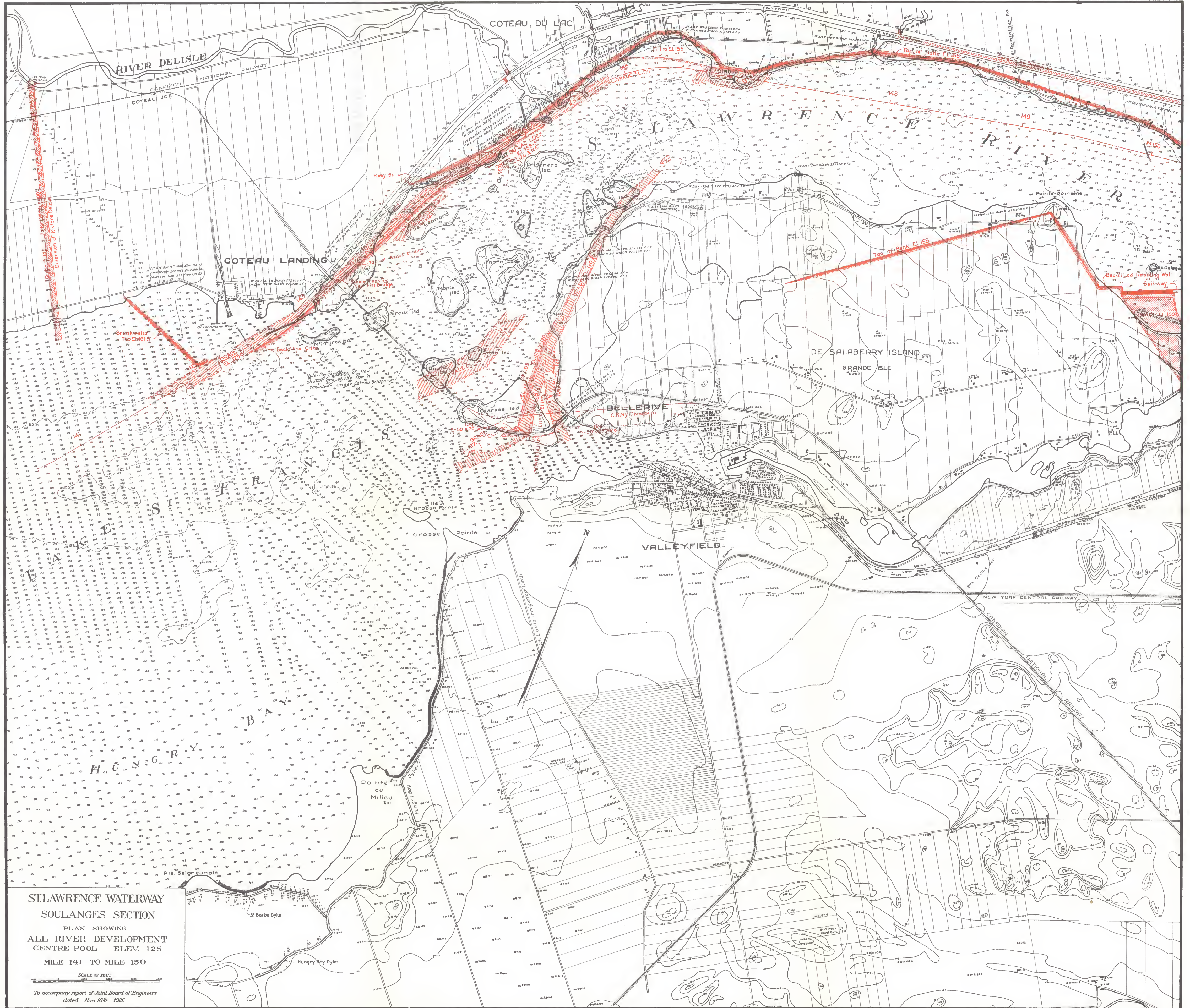


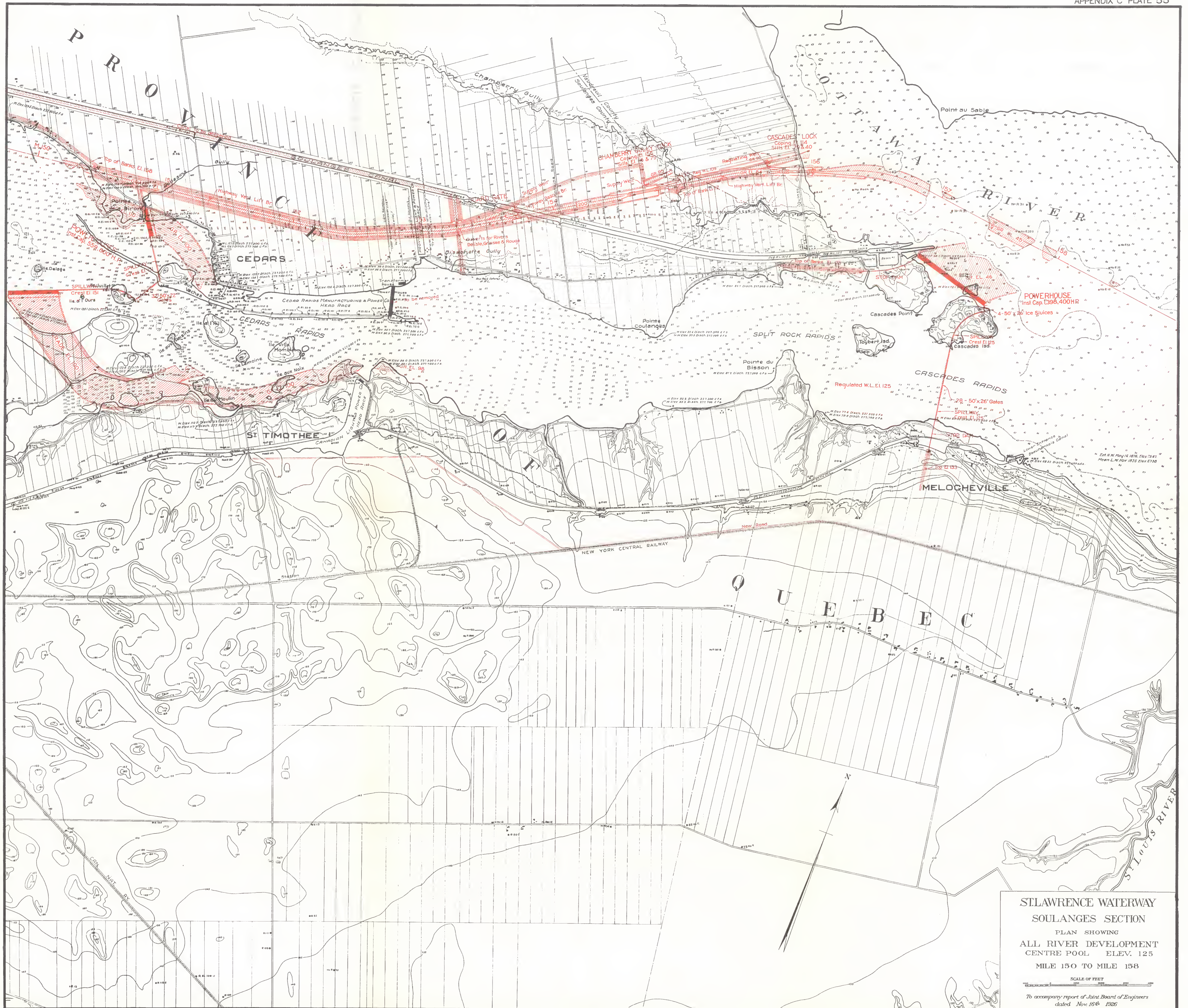


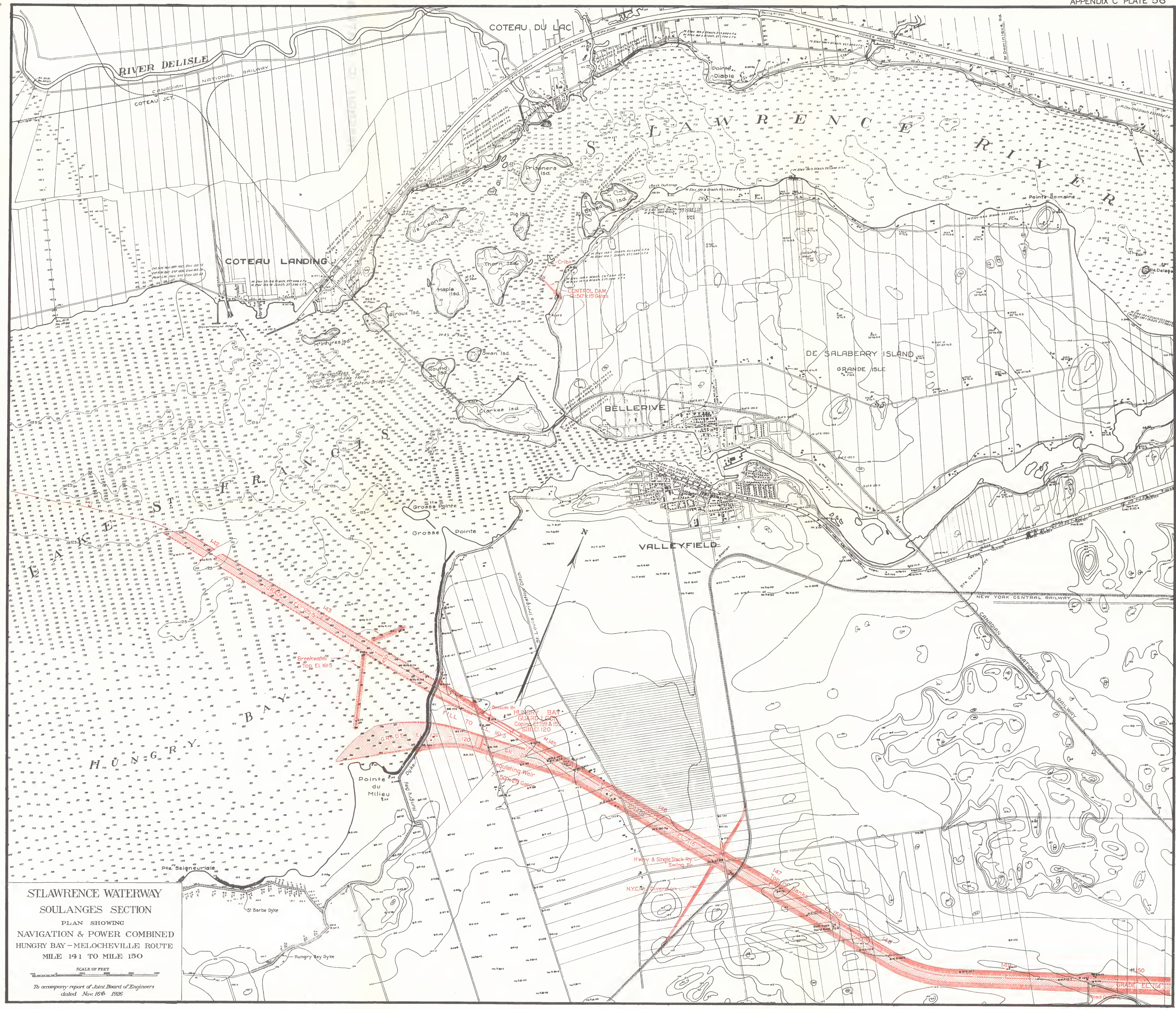


ST. LAWRENCE WATERWAY
SOULANGES SECTION
PLAN SHOWING
ALL RIVER DEVELOPMENT
CENTRE POOL ELEV. 115
MILE 150 TO MILE 158

SCALE OF FEET
To accompany report of Joint Board of Engineers
dated Nov 16th 1926







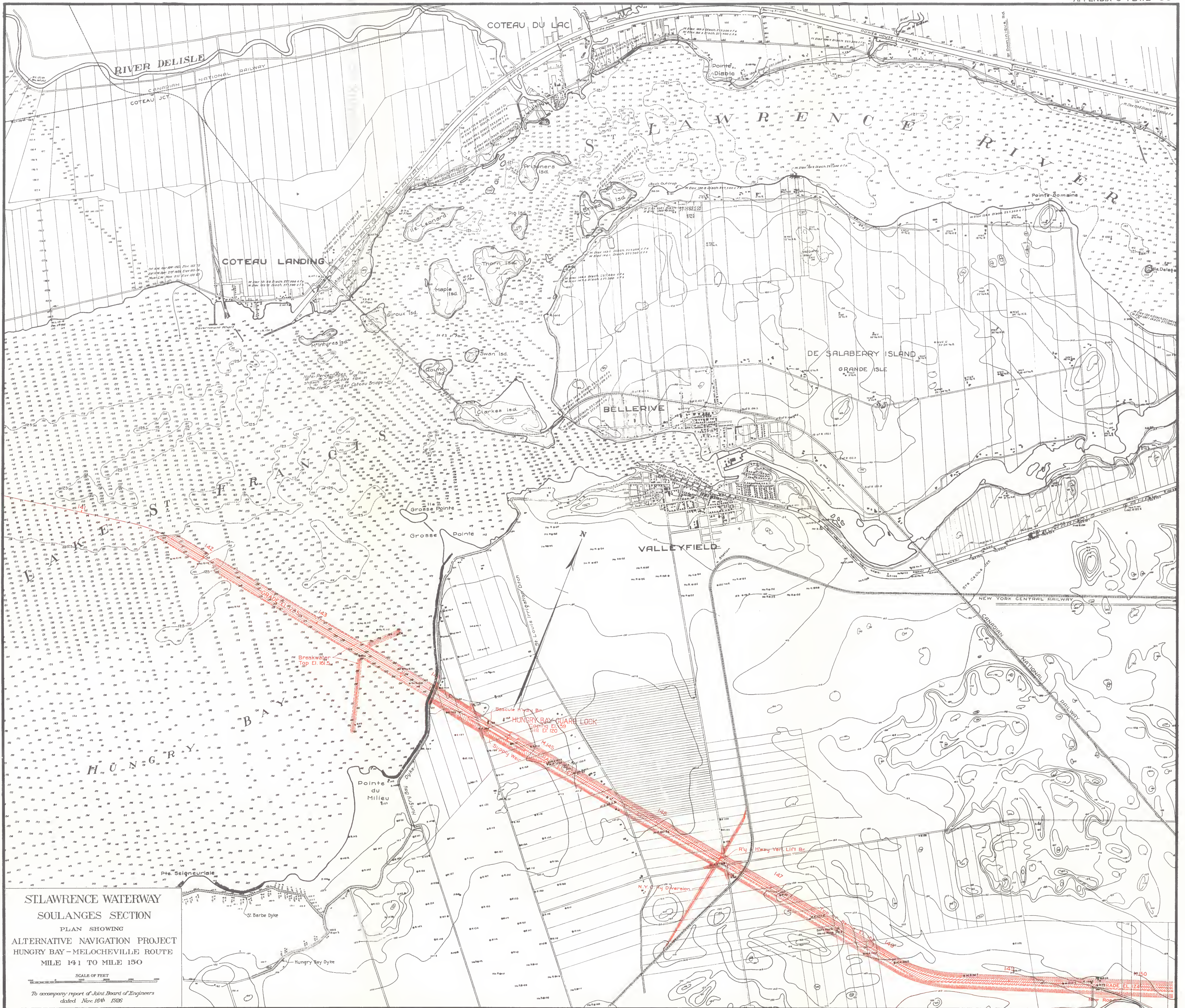
ST. LAWRENCE WATERWAY
SOULAGES SECTION
PLAN SHOWING
NAVIGATION & POWER COMBINED
HUNGRY BAY - MELOCHEVILLE ROUTE
MILE 141 TO MILE 150

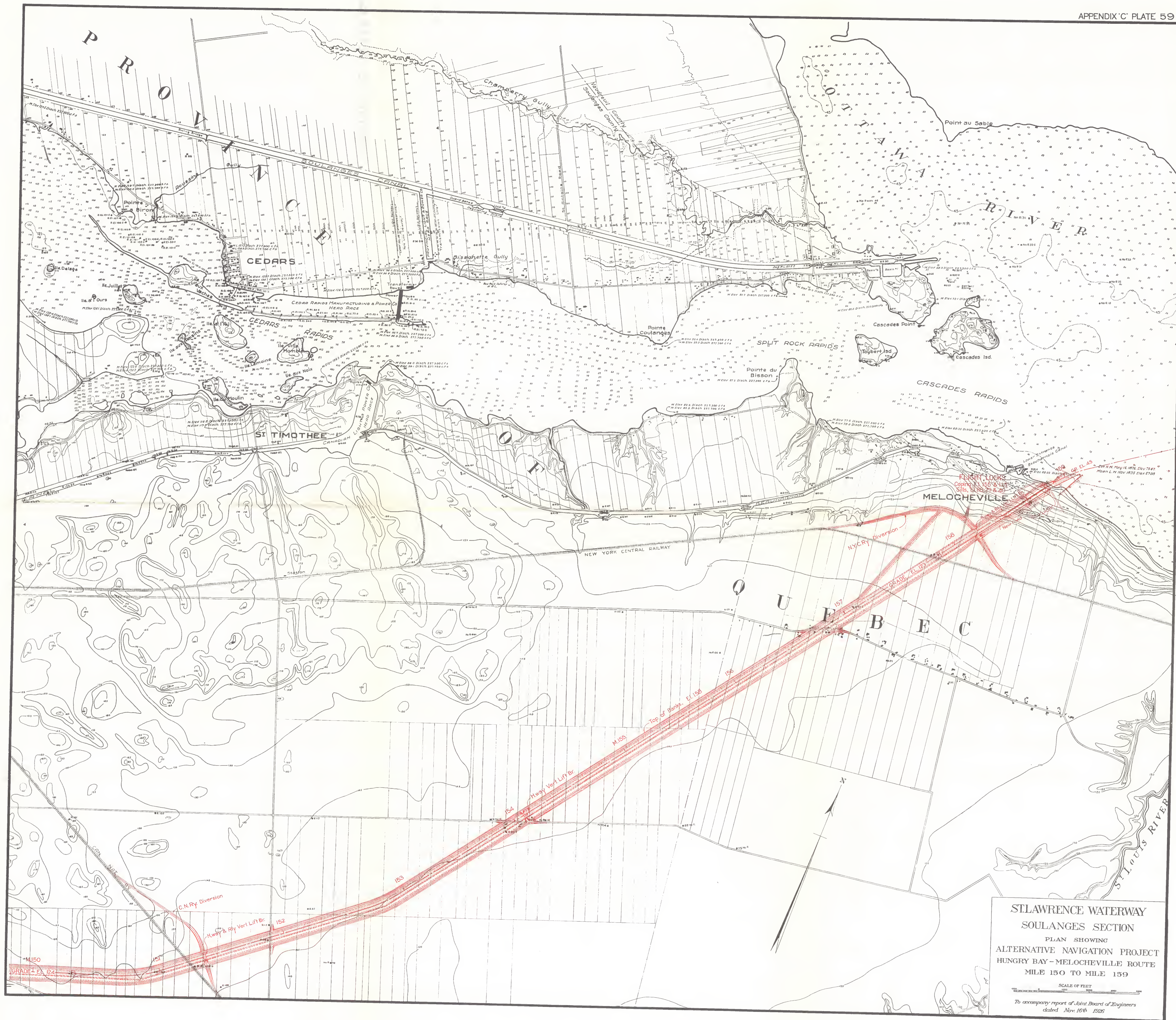
SCALE OF FEET

To accompany report of Joint Board of Engineers
dated Nov. 16th 1926

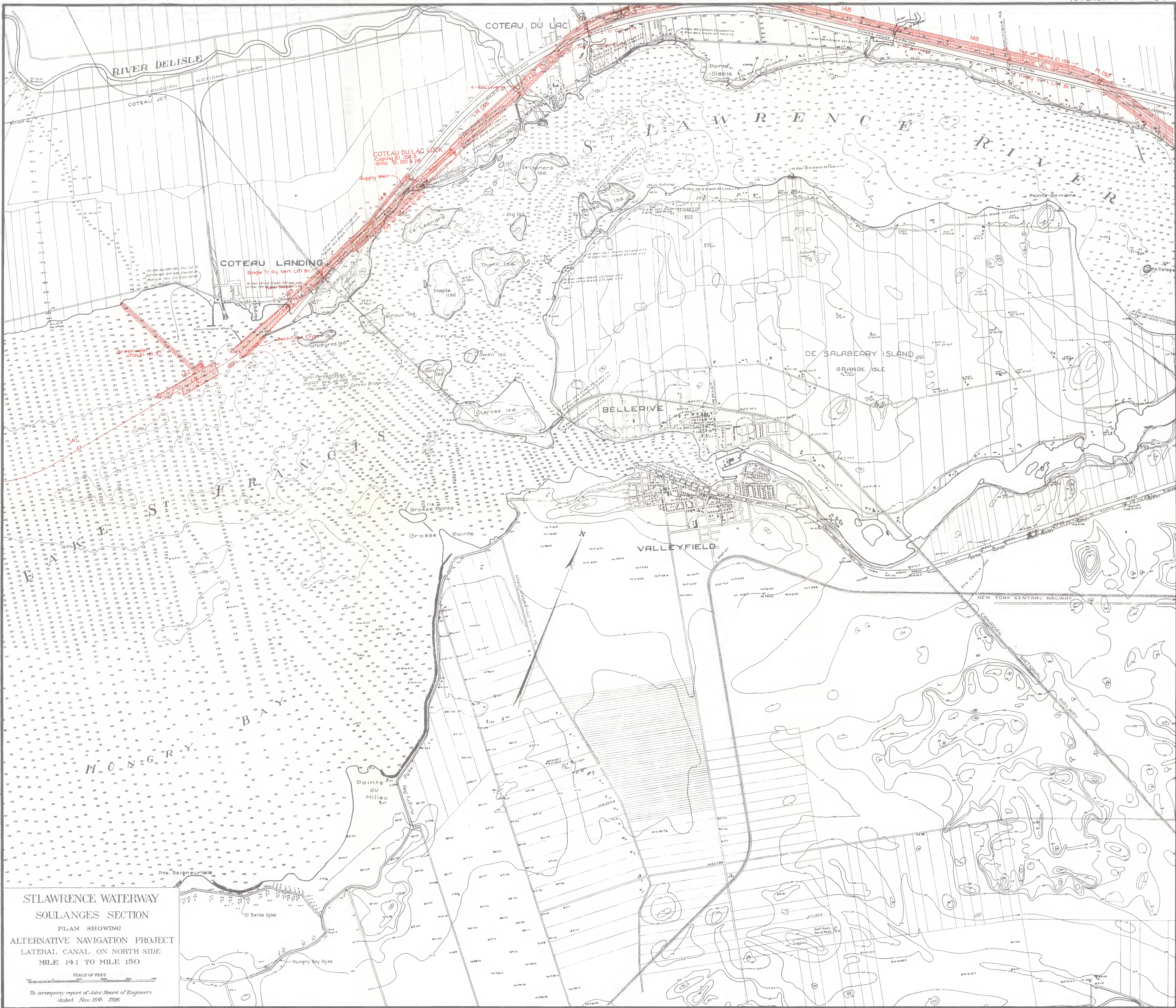
A horizontal scale bar labeled "SCALE OF FEET" with markings at 0, 1000, 2000, 3000, and 4000 feet.

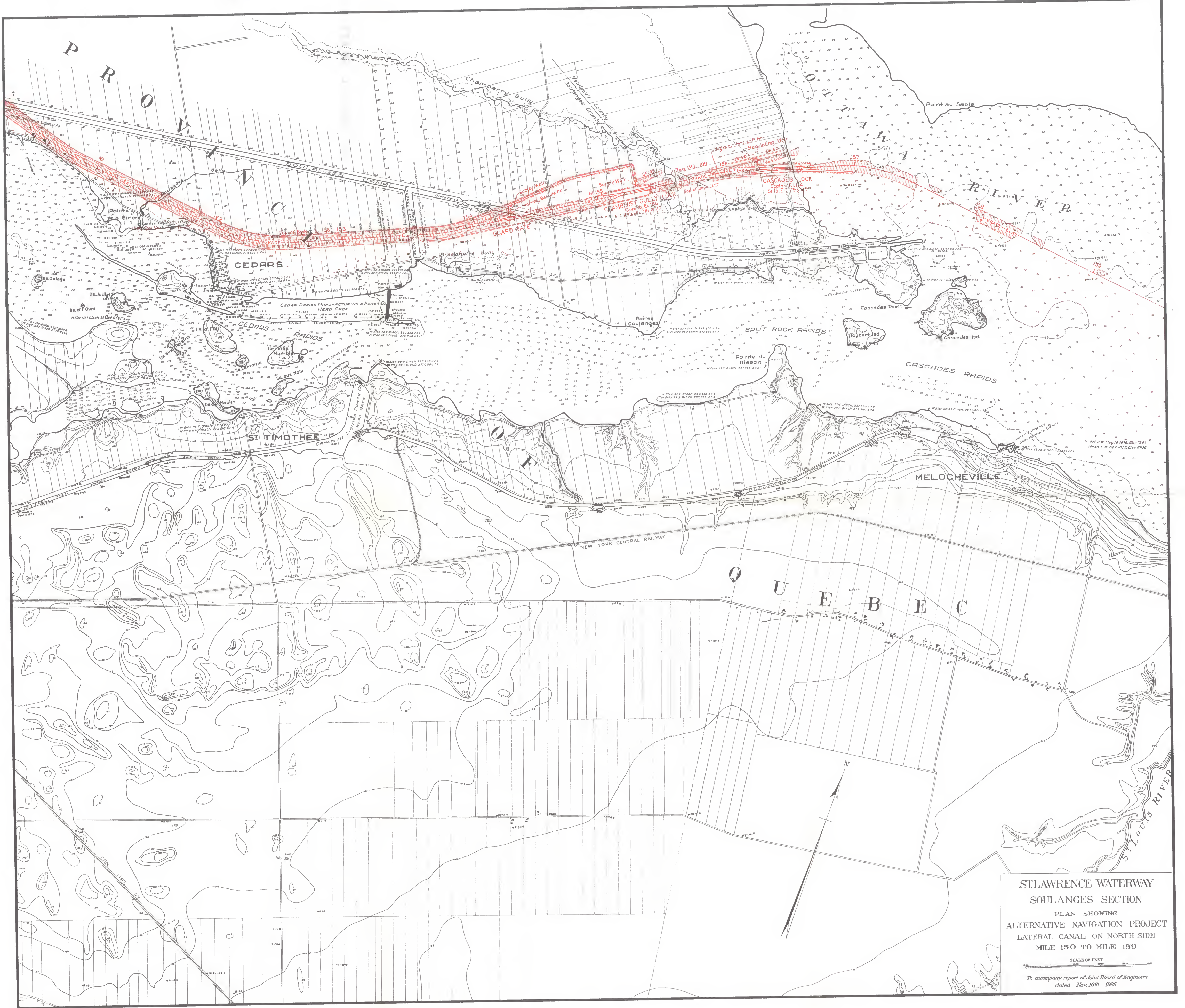
To accompany report of Joint Board of Engineers
dated Nov. 16th 1926



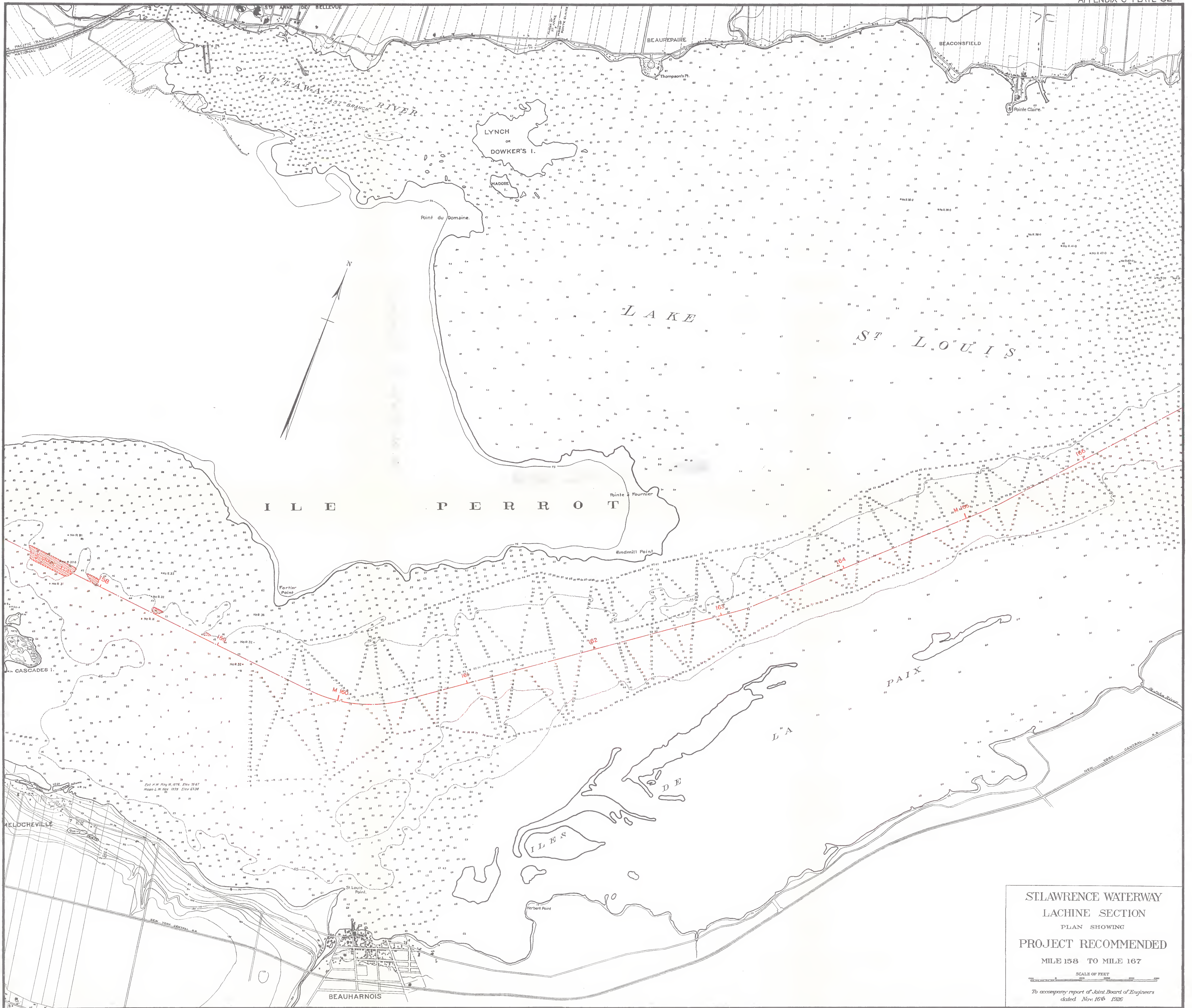


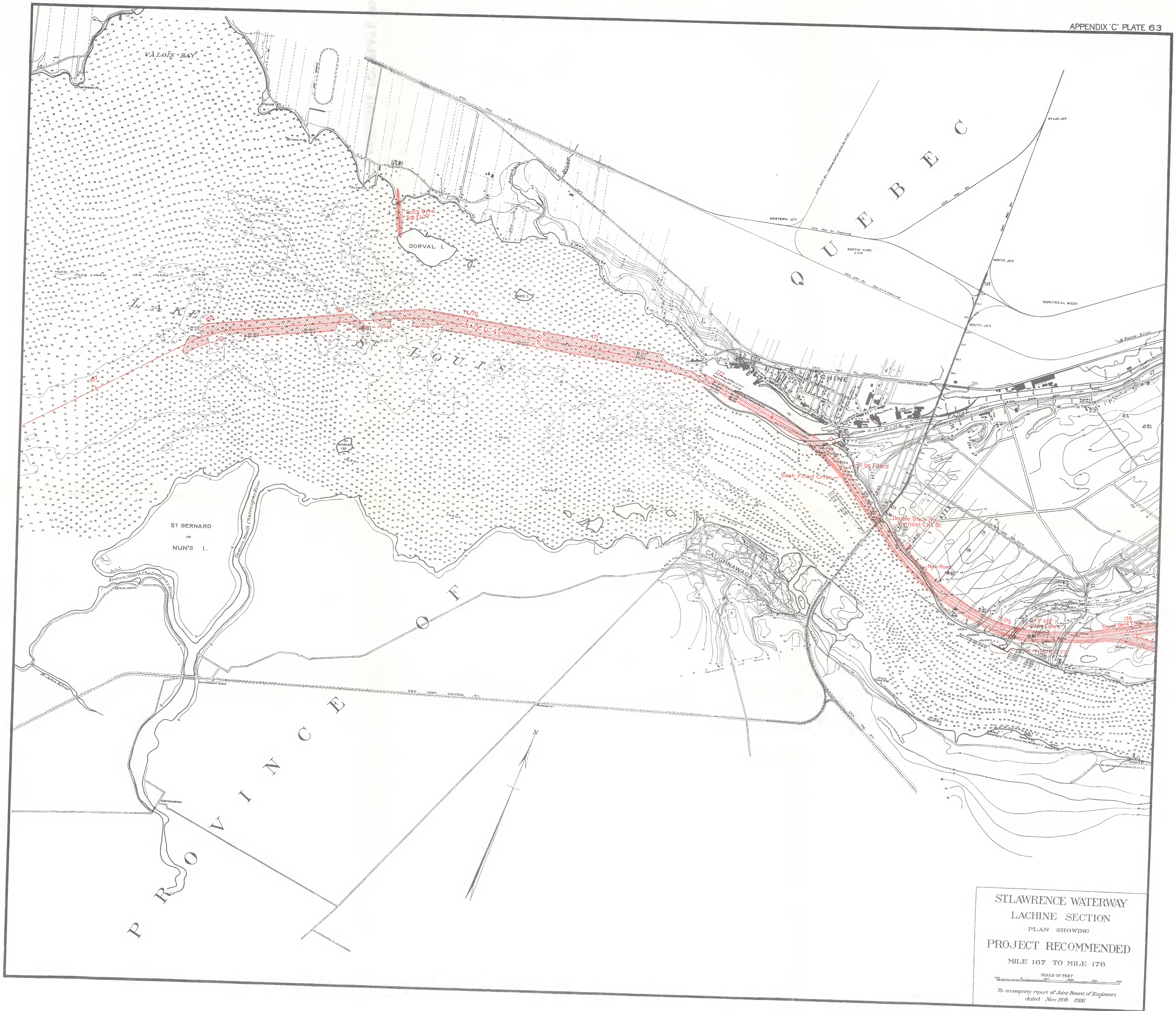
ST. LAWRENCE WATERWAY
SOULANGES SECTION
PLAN SHOWING
ALTERNATIVE NAVIGATION PROJECT
HUNGRY BAY - MELOCHEVILLE ROUTE
MILE 150 TO MILE 159
SCALE OF FEET
To accompany report of Joint Board of Engineers
dated Nov. 16th, 1925



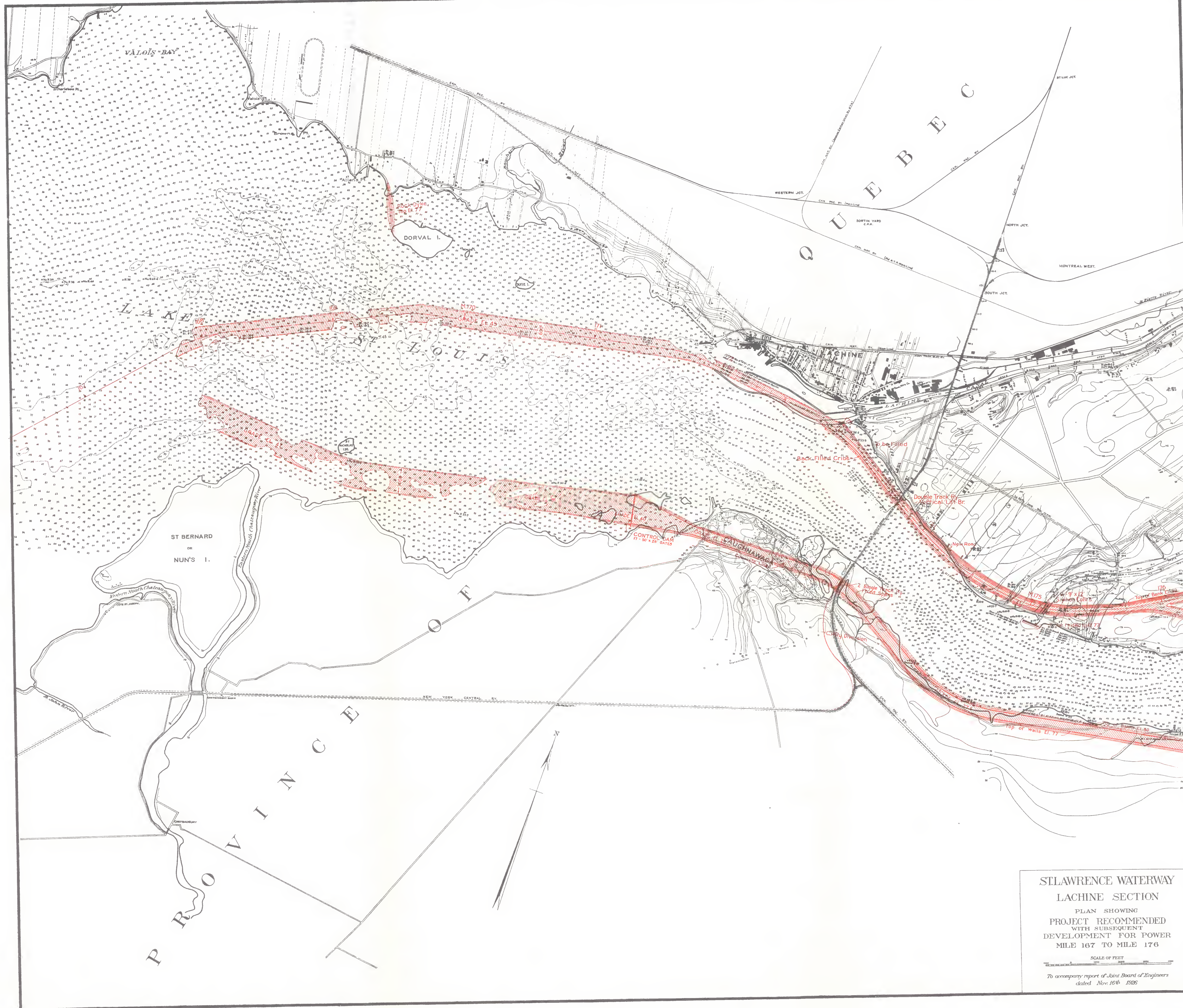


ST. LAWRENCE WATERWAY
SOULANGES SECTION
PLAN SHOWING
ALTERNATIVE NAVIGATION PROJECT
LATERAL CANAL ON NORTH SIDE
MILE 150 TO MILE 159
SCALE OF FEET
To accompany report of Joint Board of Engineers
dated Nov. 16th 1926





ST. LAWRENCE WATERWAY
LACHINE SECTION
PLAN SHOWING
PROJECT RECOMMENDED
MILE 167 TO MILE 176
SCALE OF FEET
0 100 200 300 400 500
To accompany report of Joint Board of Engineers
dated Nov. 16th 1926



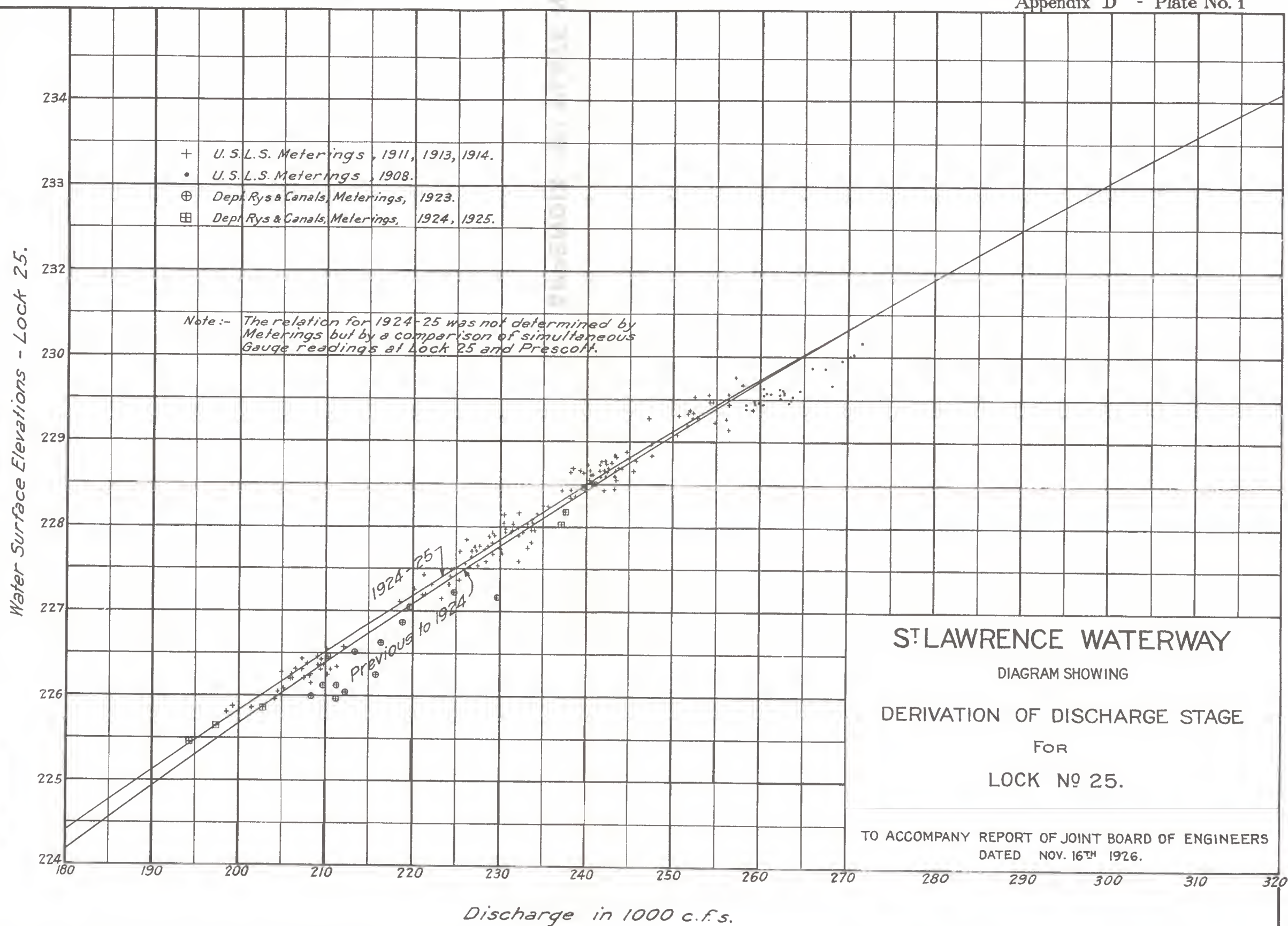
ST. LAWRENCE WATERWAY
LACHINE SECTION
PLAN SHOWING
PROJECT RECOMMENDED
WITH SUBSEQUENT
DEVELOPMENT FOR POWER
MILE 167 TO MILE 176

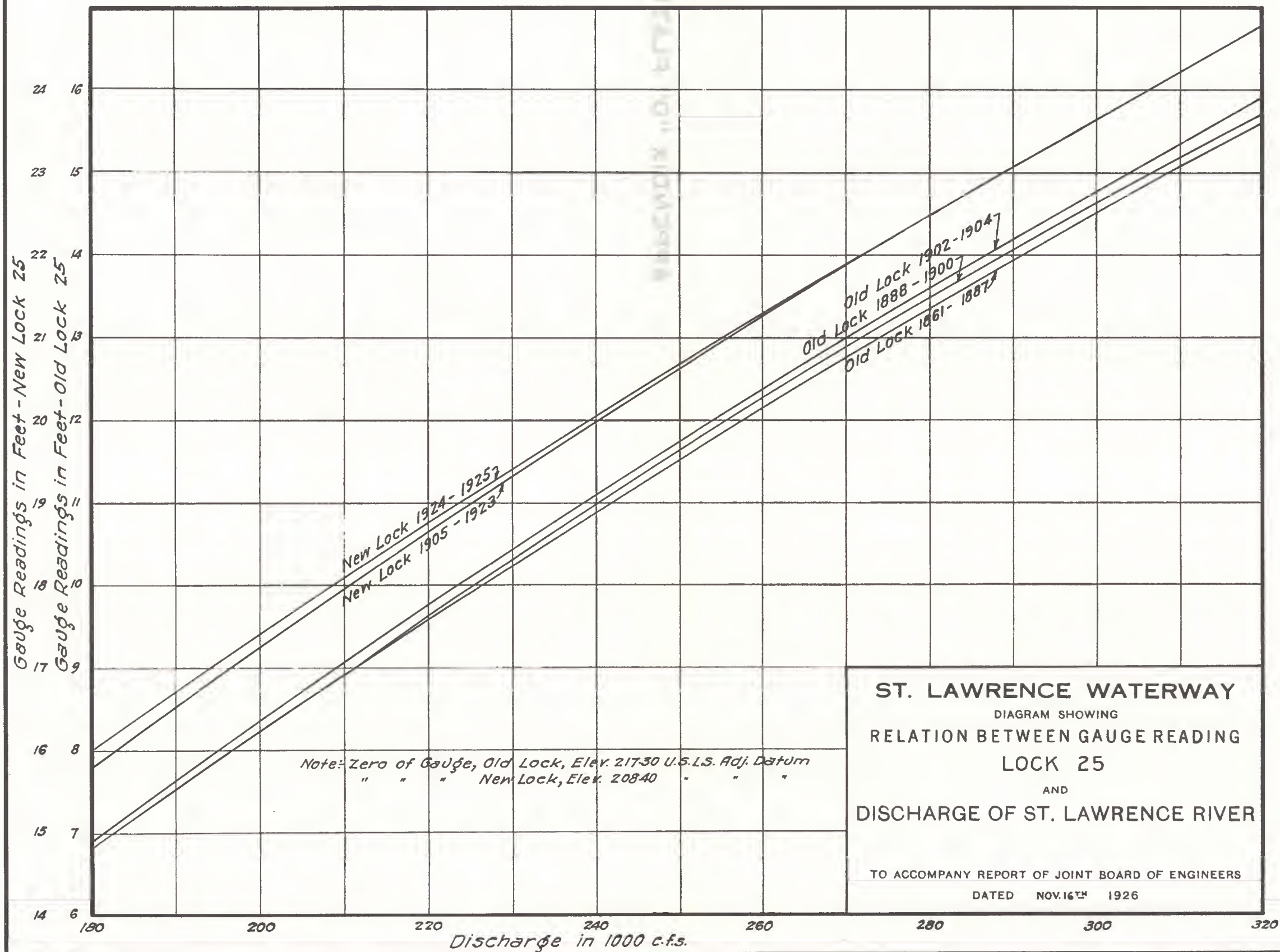
SCALE OF FEET
0 100 200 300 400 500
To accompany report of Joint Board of Engineers
dated Nov. 16th 1926

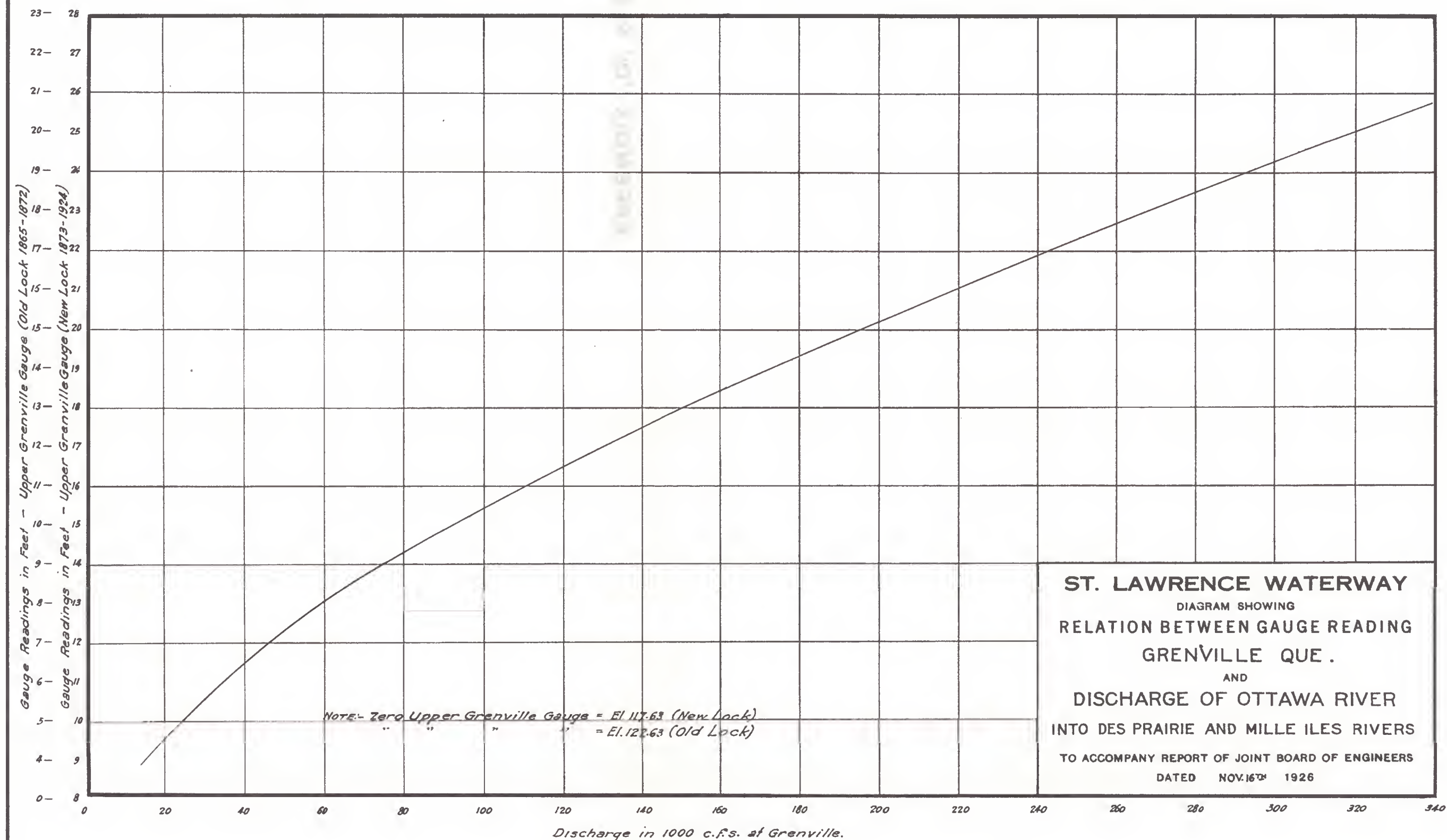


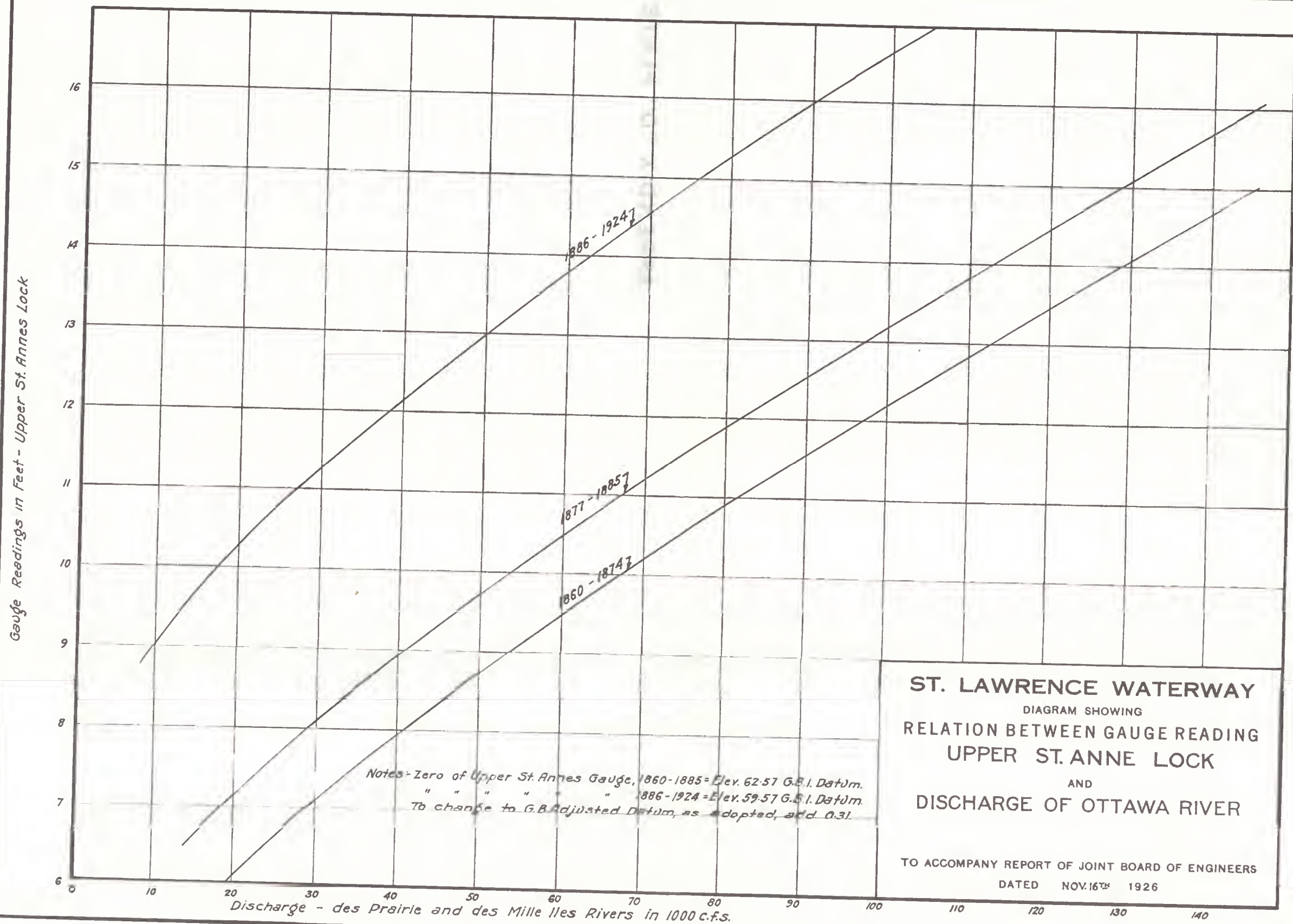
ST. LAWRENCE WATERWAY
LACHINE SECTION
PLAN SHOWING
PROJECT RECOMMENDED
WITH SUBSEQUENT
DEVELOPMENT FOR POWER
MILE 176 TO MILE 183

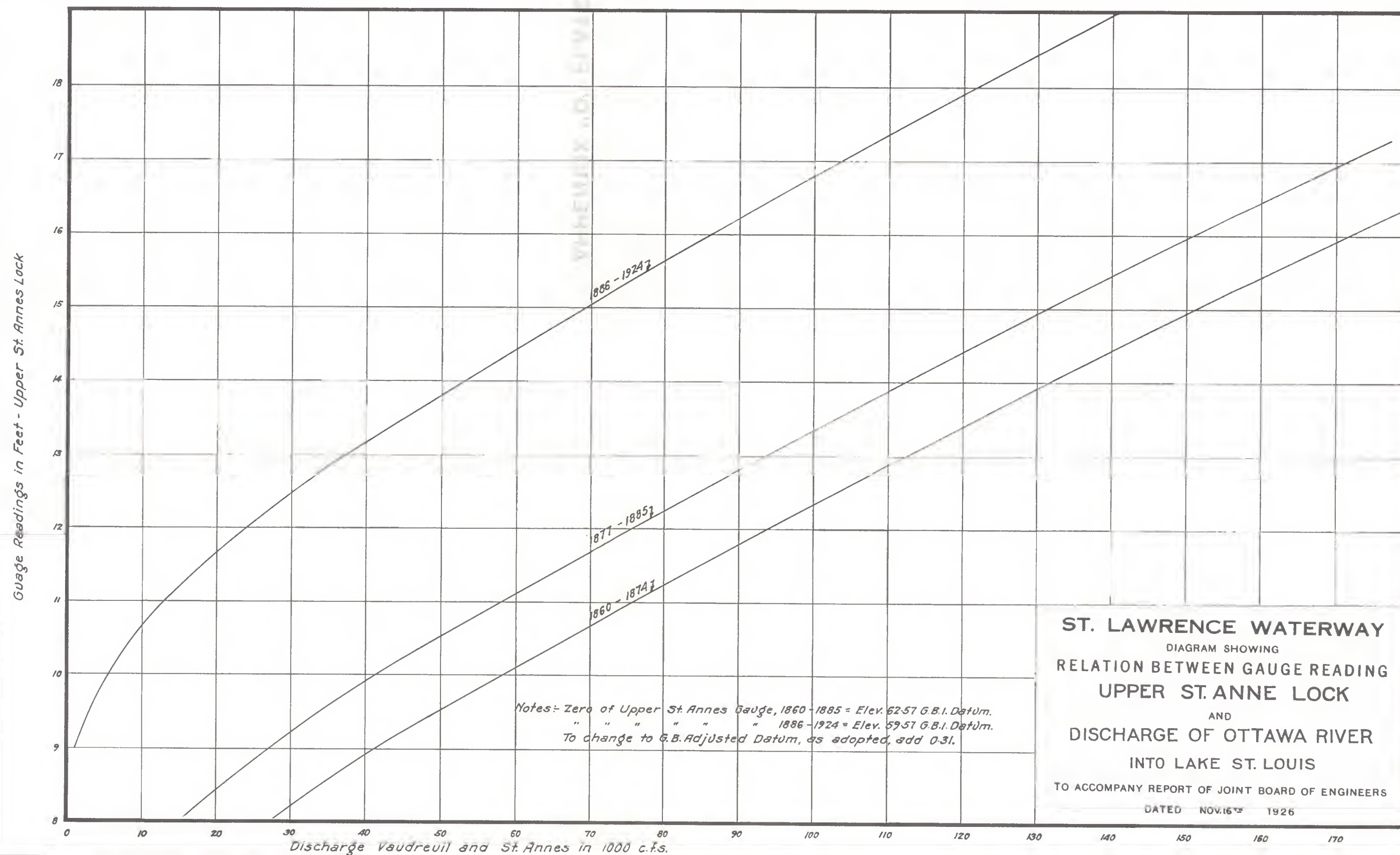
SCALE OF FEET
0 100 200
To accompany report of Joint Board of Engineers
dated Nov. 16th 1926

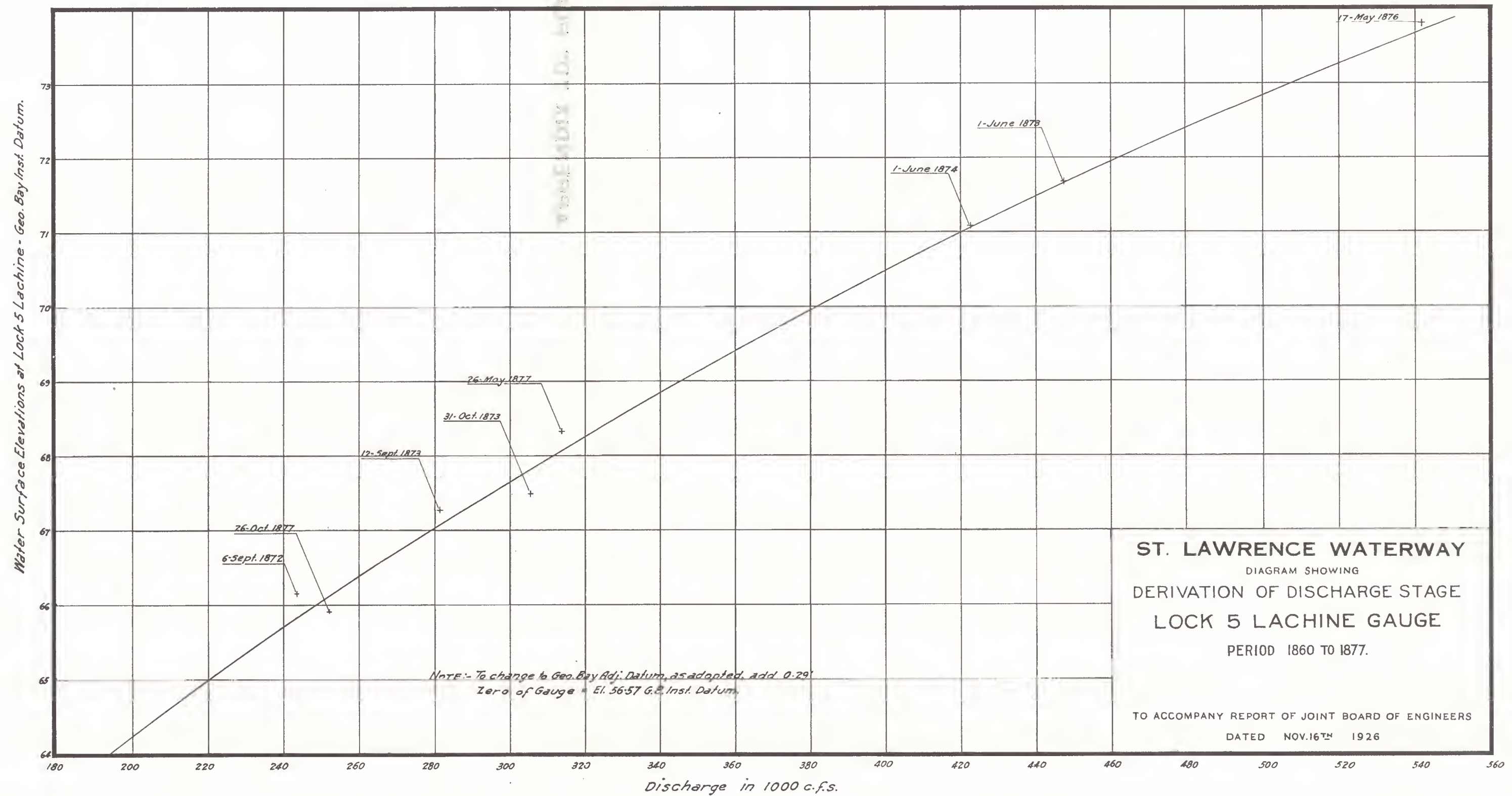


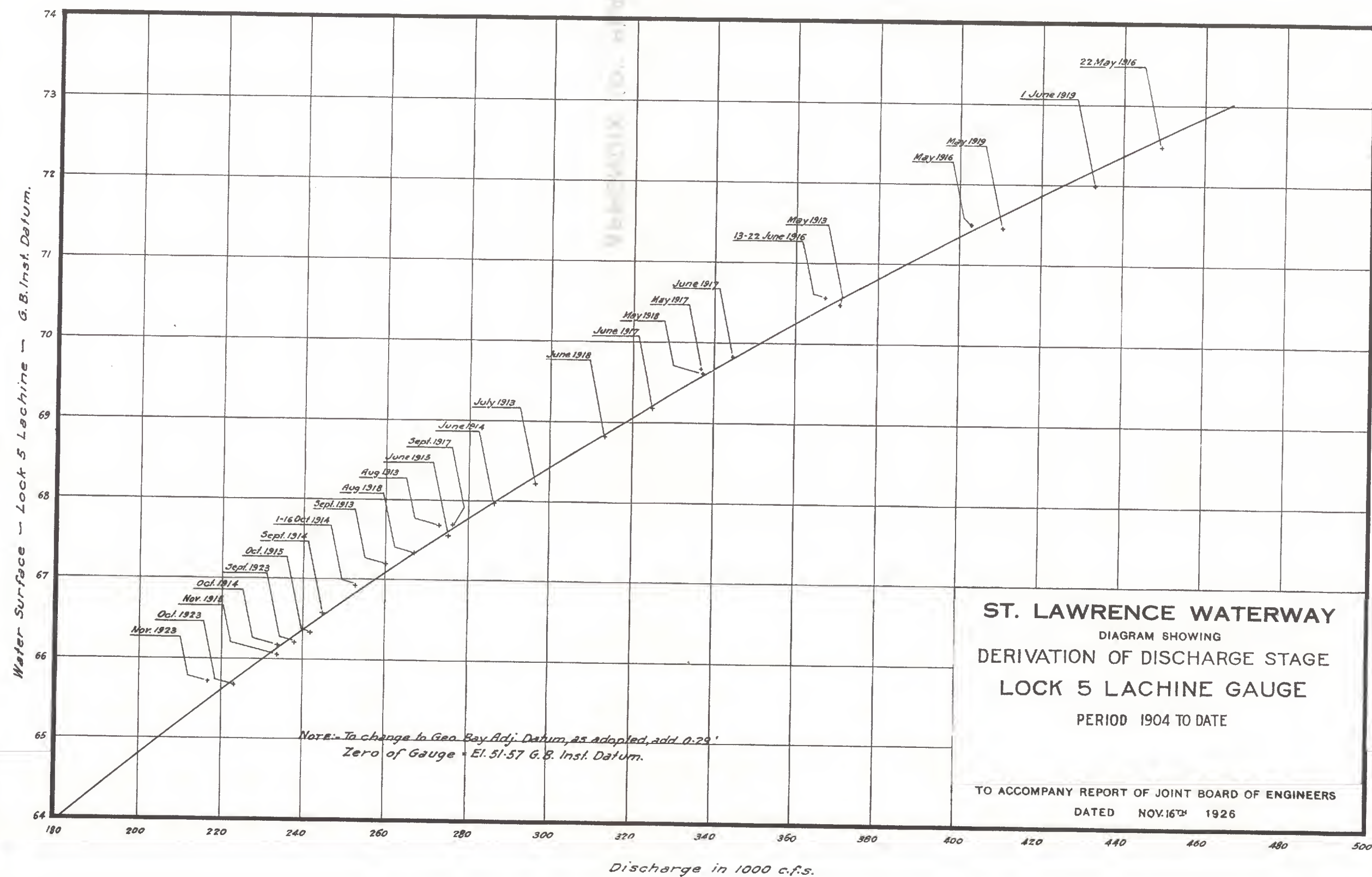




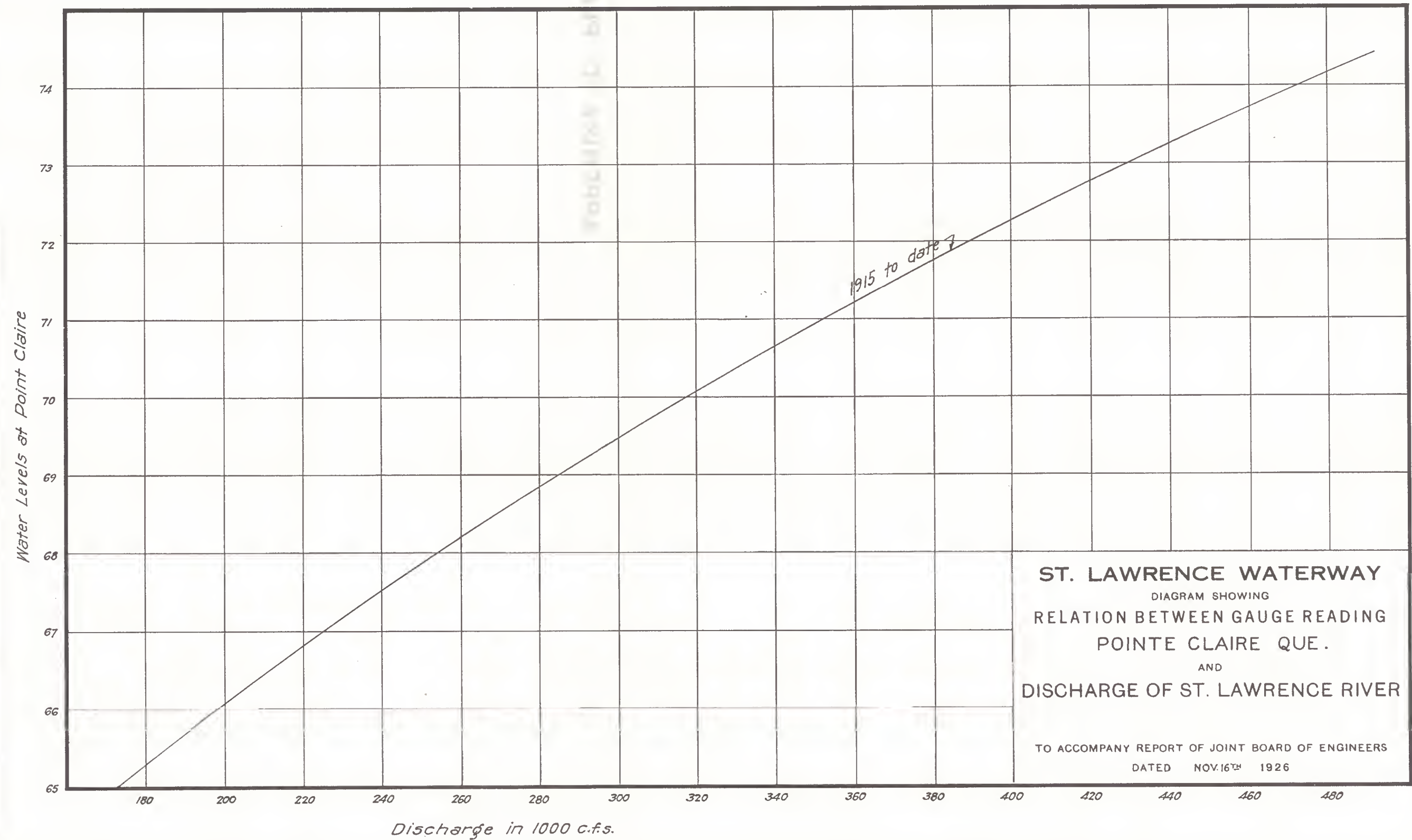


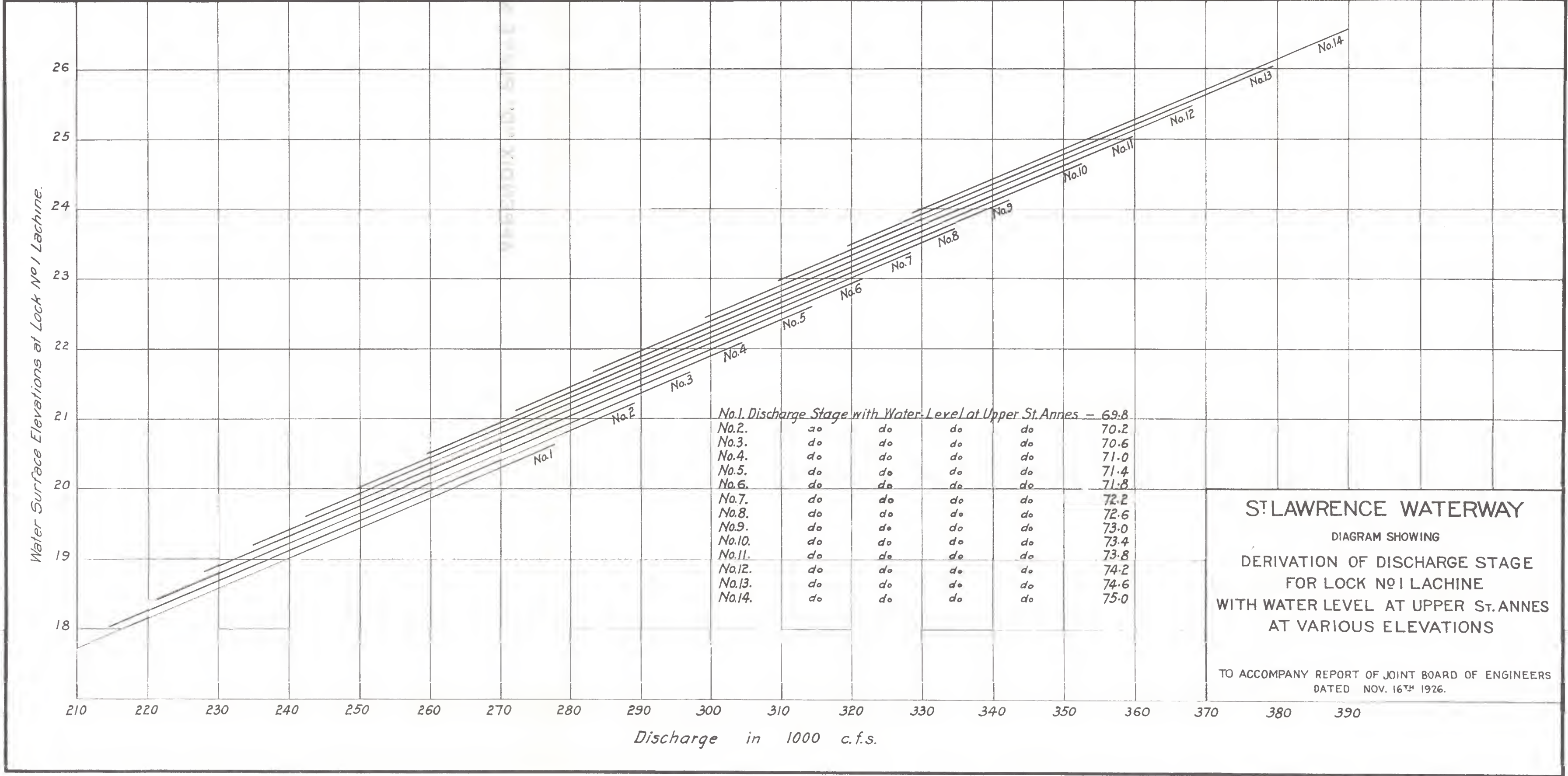




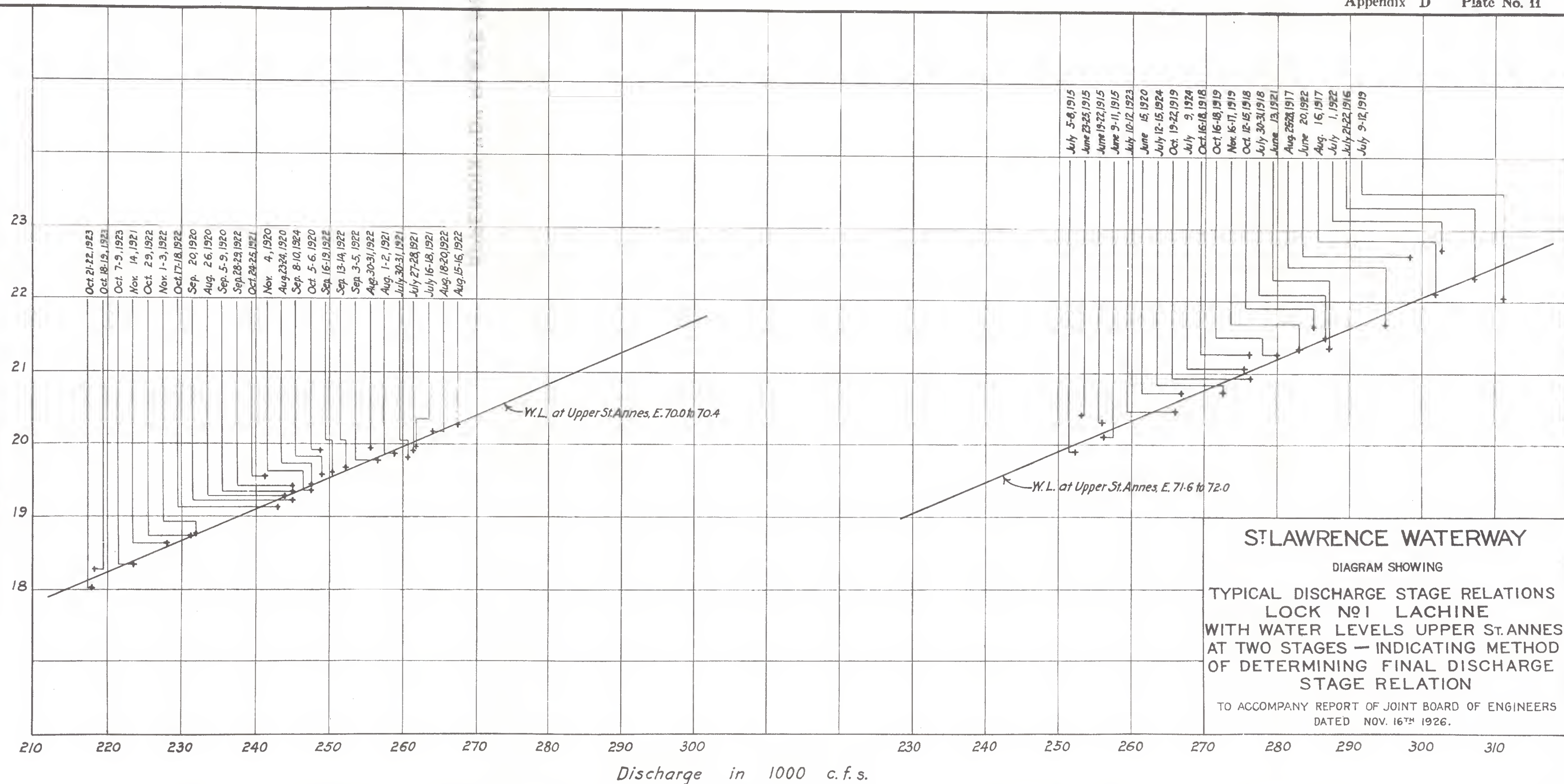


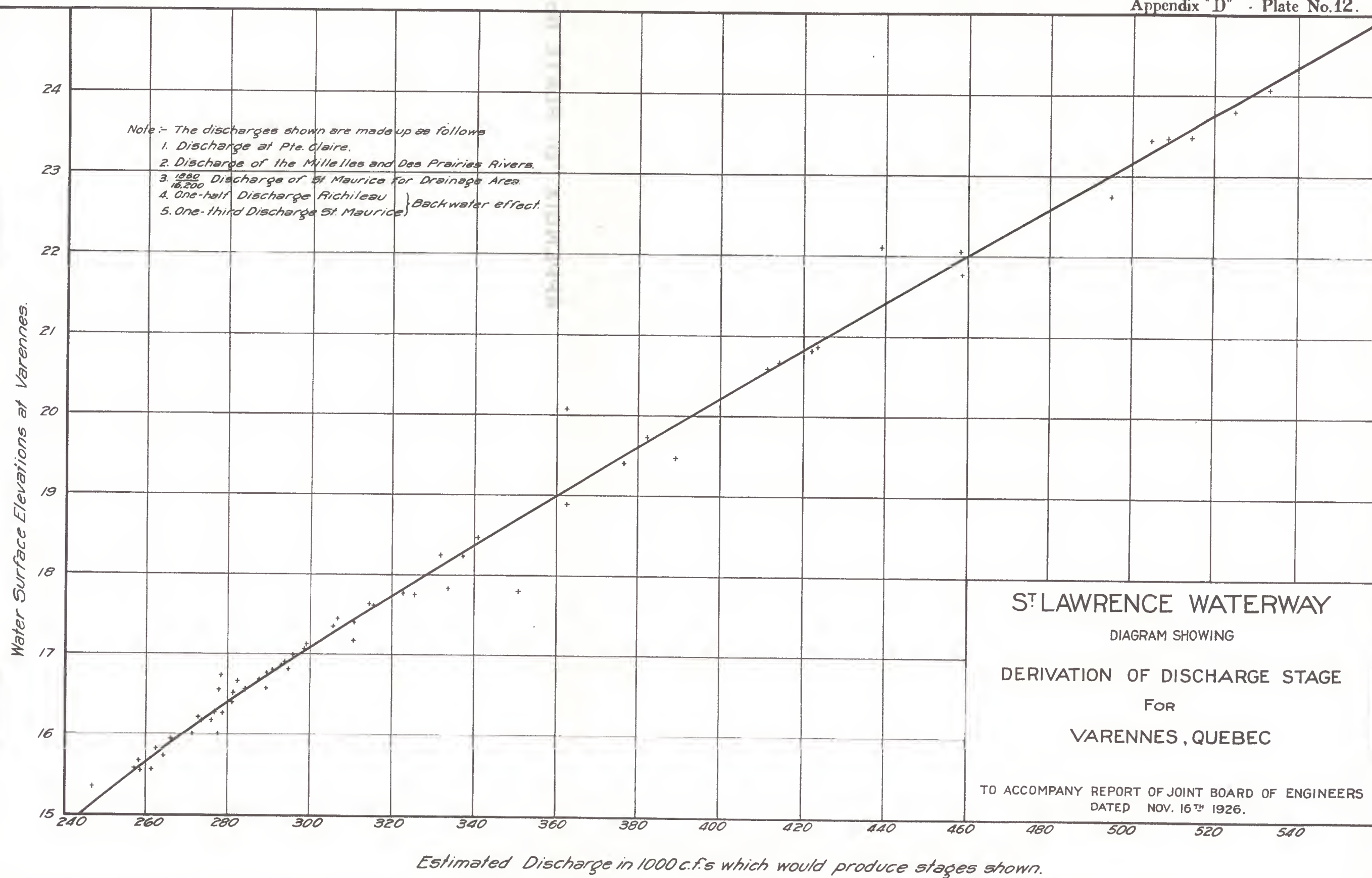


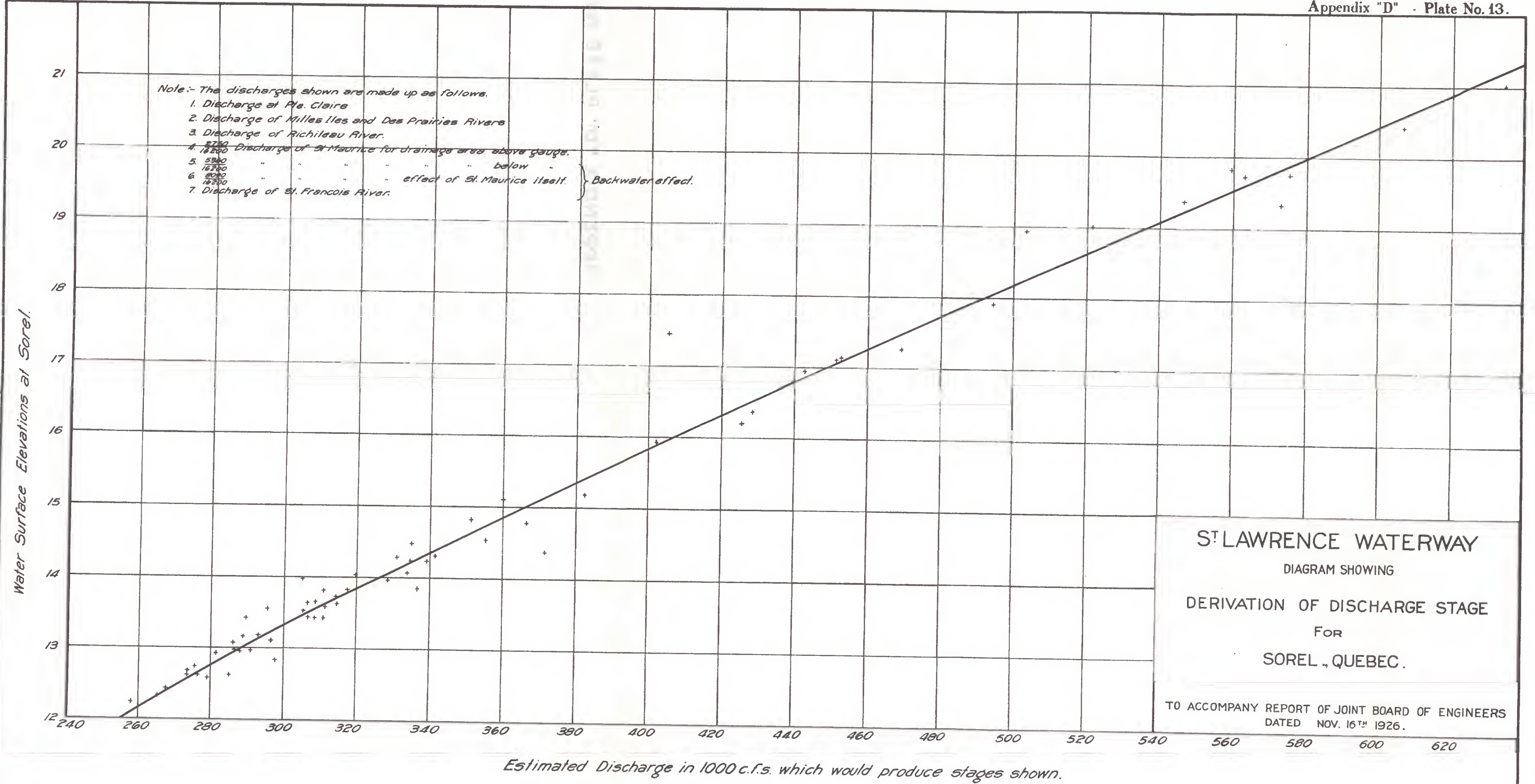


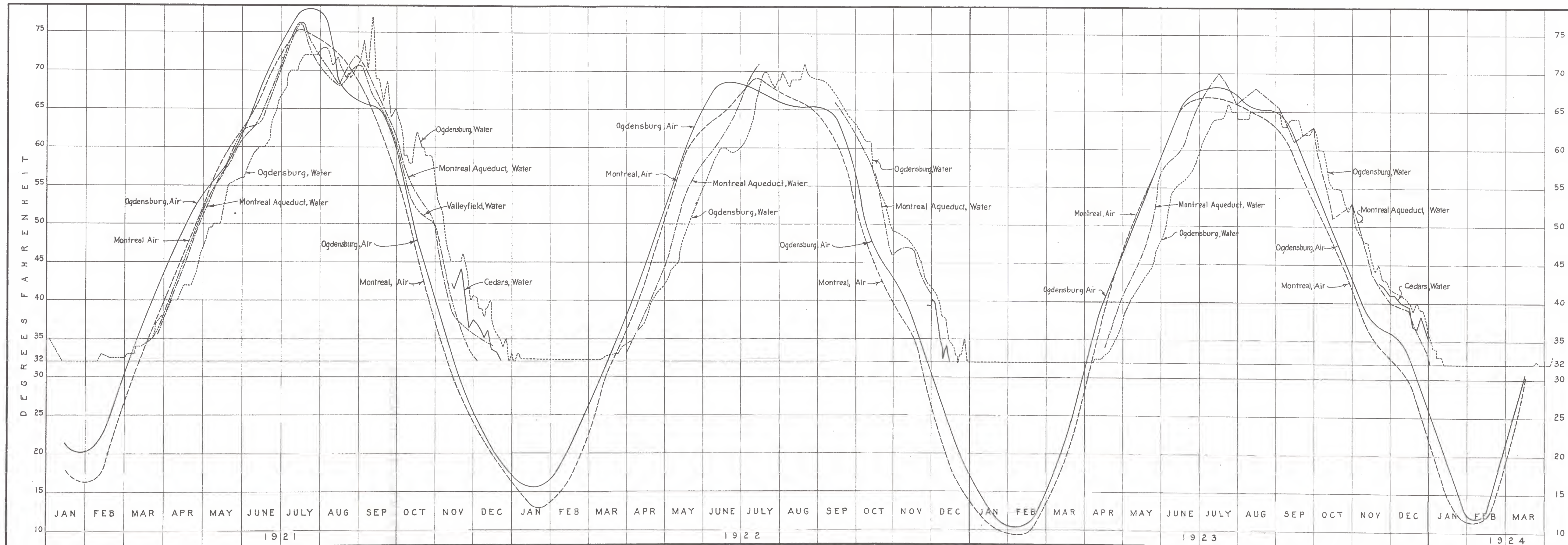


Water Surface Elevations at Lock No. 1 Lachine.



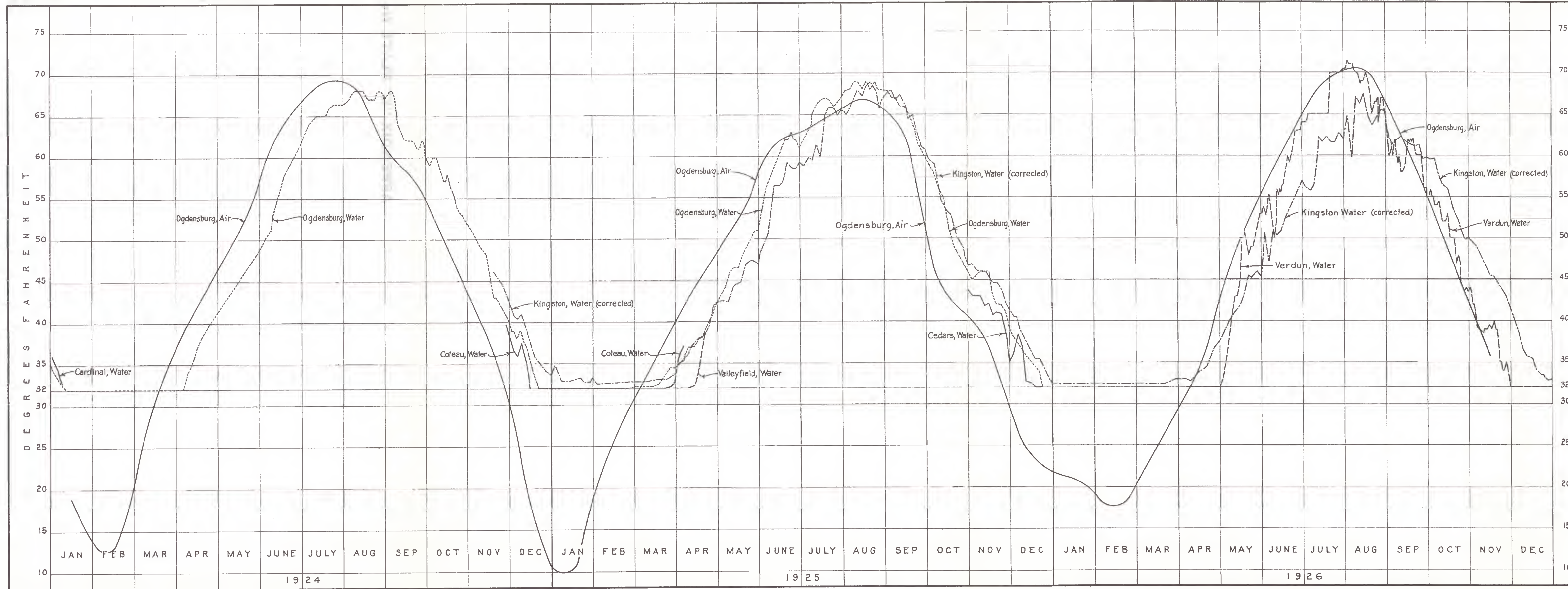






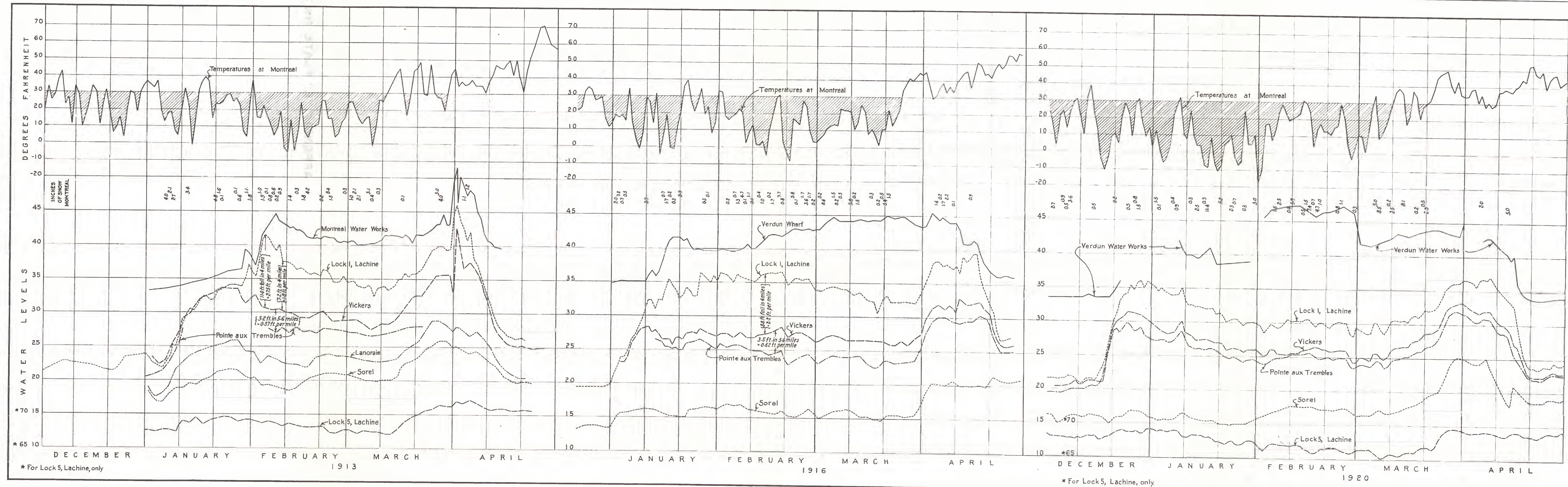
ST. LAWRENCE WATERWAY
 DIAGRAM SHOWING
 AIR AND WATER TEMPERATURES
 AT VARIOUS POINTS
 LAKE ONTARIO TO MONTREAL

TO ACCOMPANY REPORT OF JOINT BOARD OF ENGINEERS
 DATED NOV. 16TH 1926



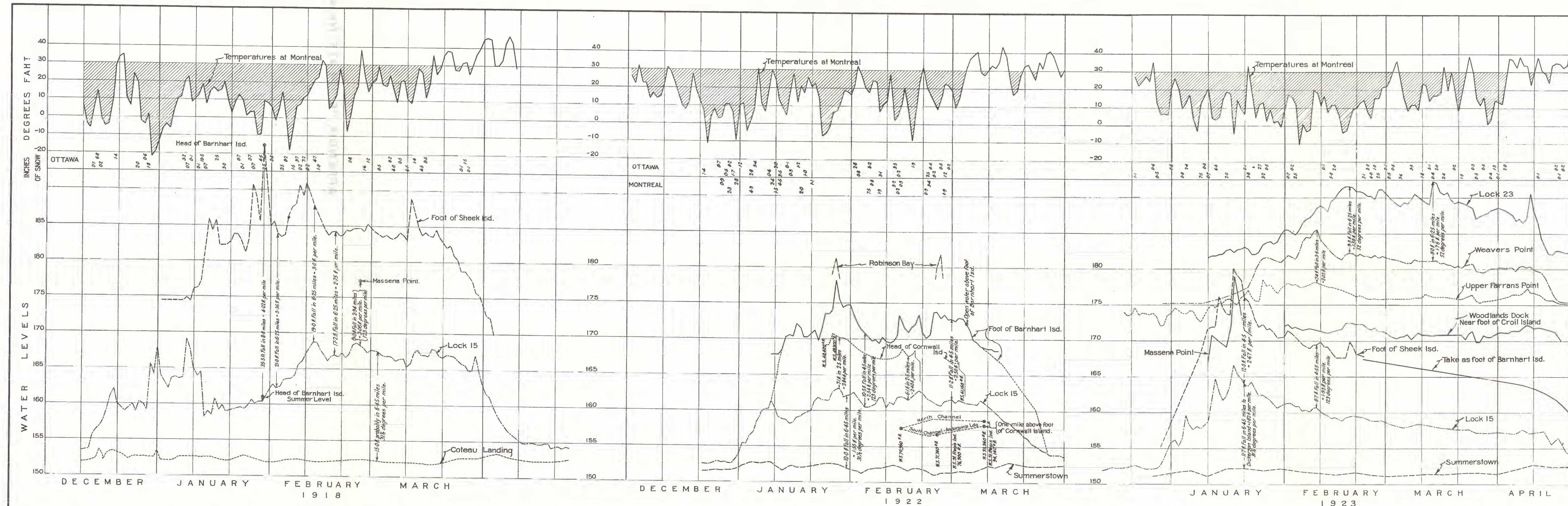
ST. LAWRENCE WATERWAY
 DIAGRAM SHOWING
 AIR AND WATER TEMPERATURES
 AT VARIOUS POINTS
 LAKE ONTARIO TO MONTREAL

TO ACCOMPANY REPORT OF JOINT BOARD OF ENGINEERS
 DATED NOV. 16TH 1926



ST. LAWRENCE WATERWAY
DIAGRAM SHOWING
EFFECT OF SNOWFALLS AND
COLD WEATHER ON HEIGHT OF
ICE JAMS IN
ST. LAWRENCE RIVER

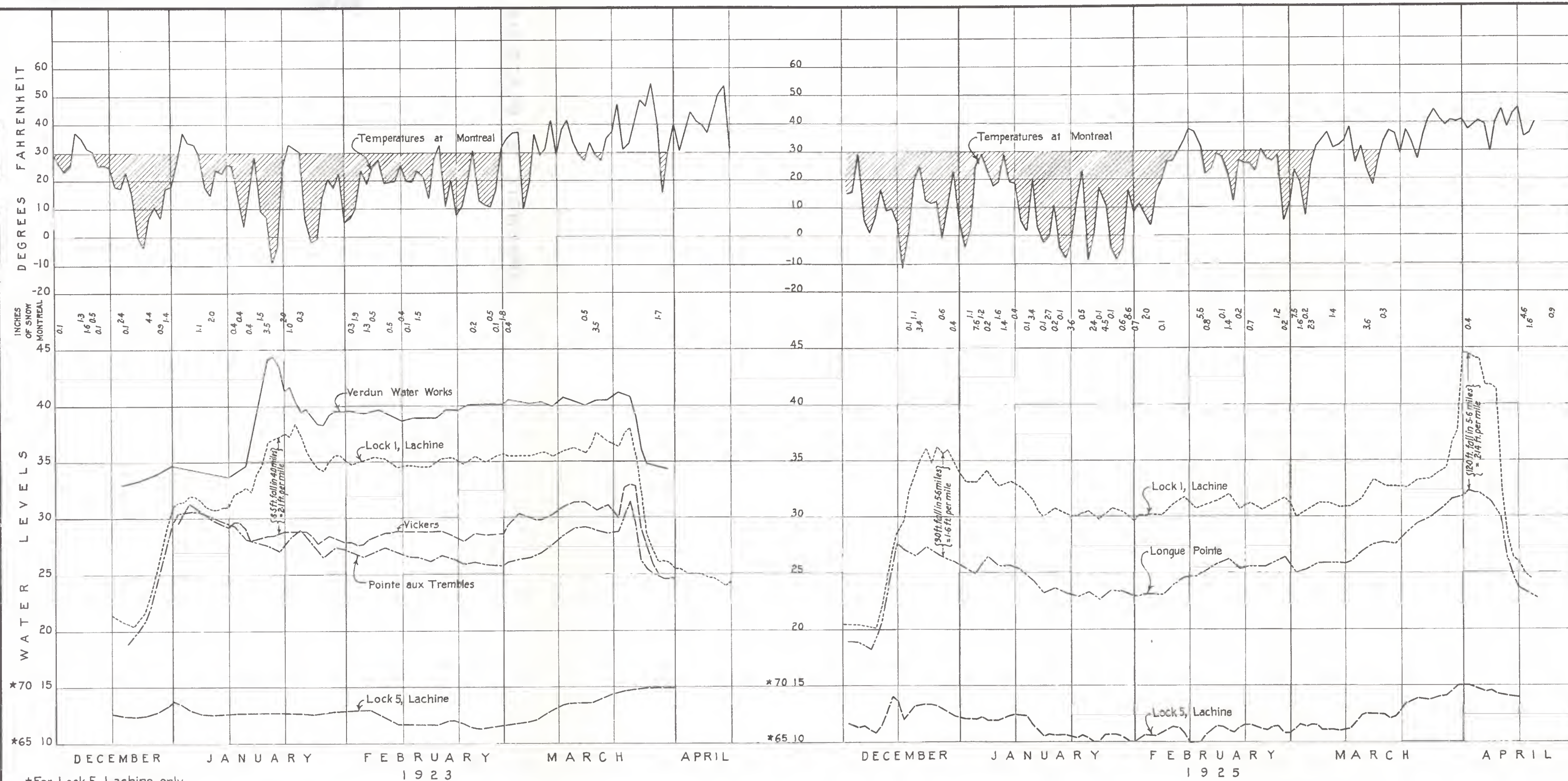
TO ACCOMPANY REPORT OF JOINT BOARD OF ENGINEERS
DATED NOV. 16TH 1926



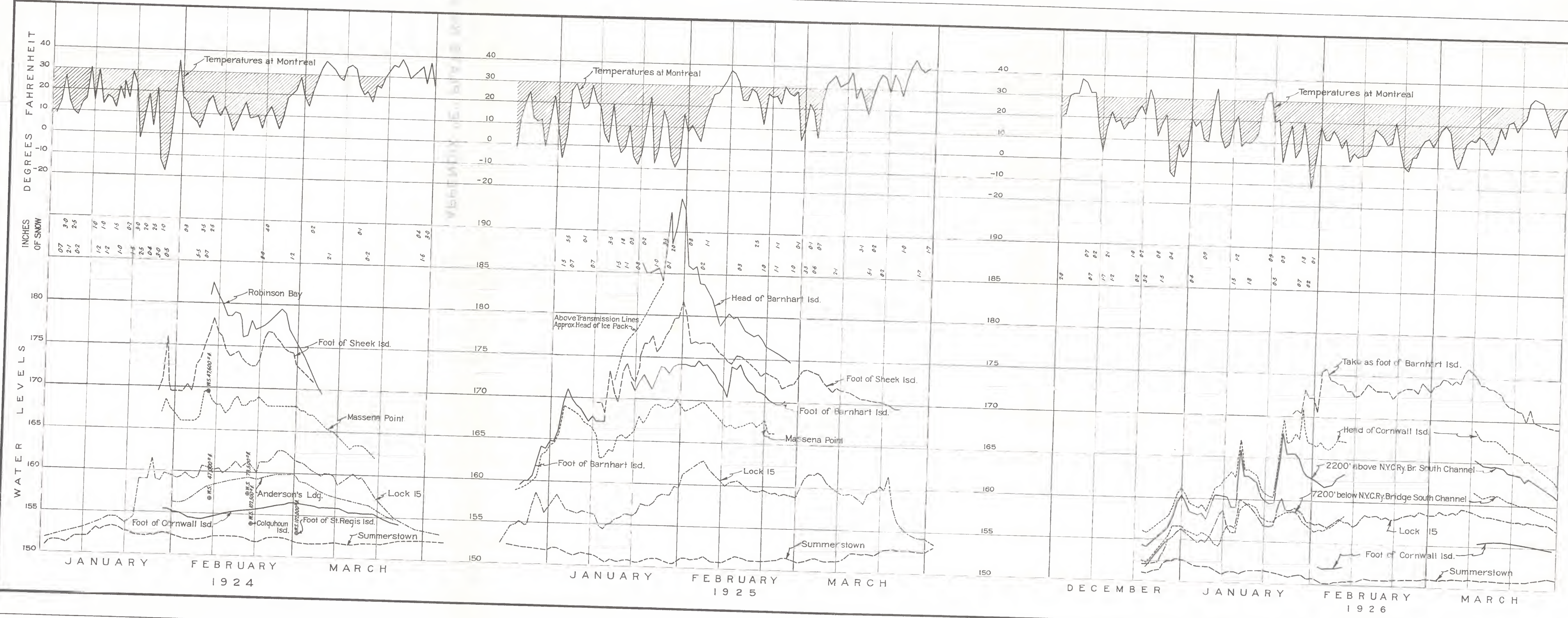
WATER LEVELS AT
Lock 23, Weavers Pt., Upper Farran's Pt. and
Woodlands Dock, only.

ST. LAWRENCE WATERWAY DIAGRAM SHOWING EFFECT OF SNOWFALLS AND COLD WEATHER ON HEIGHT OF ICE JAMS IN ST. LAWRENCE RIVER

TO ACCOMPANY REPORT OF JOINT BOARD OF ENGINEERS
DATED, NOV. 16TH 1926.

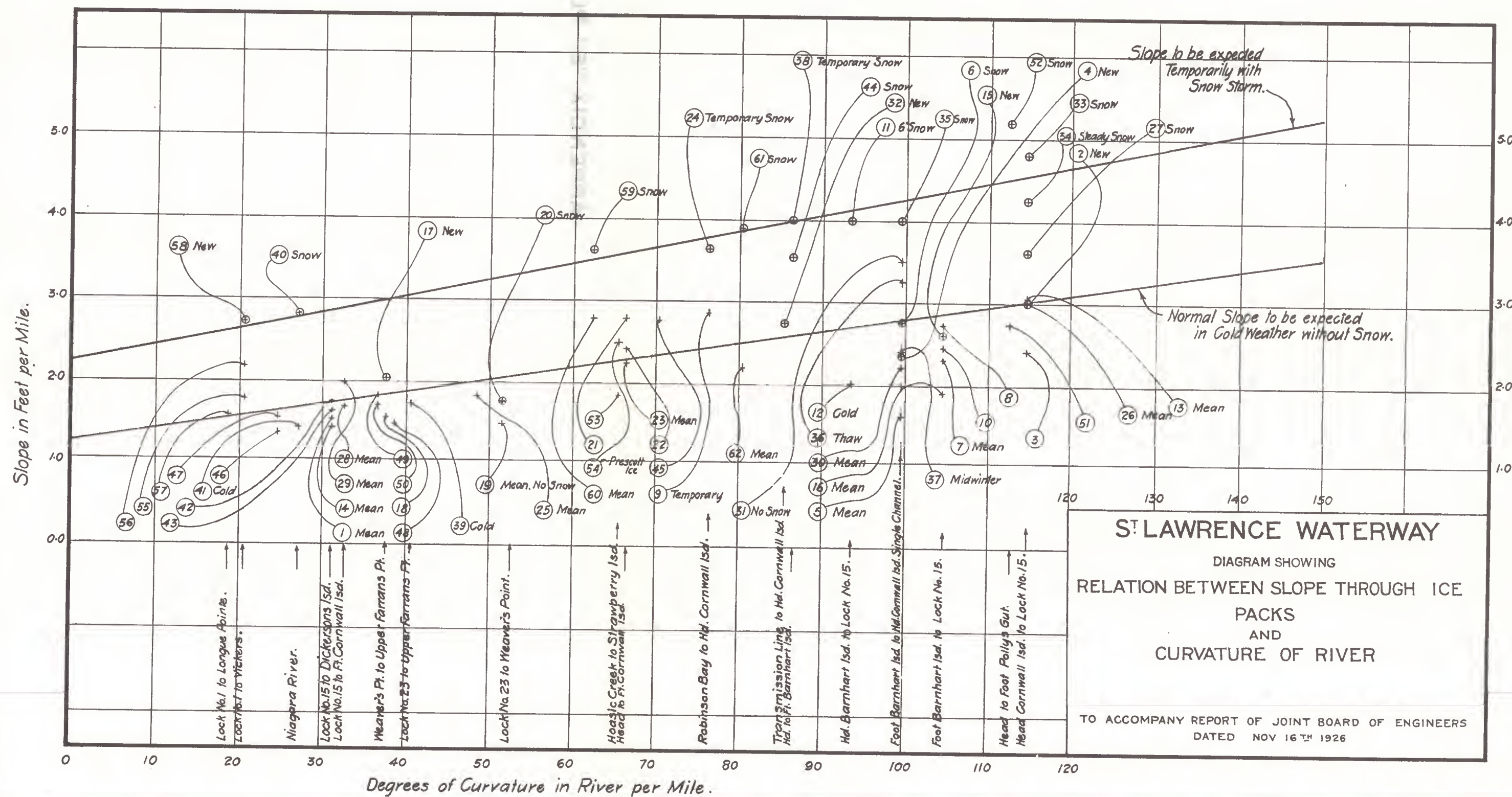


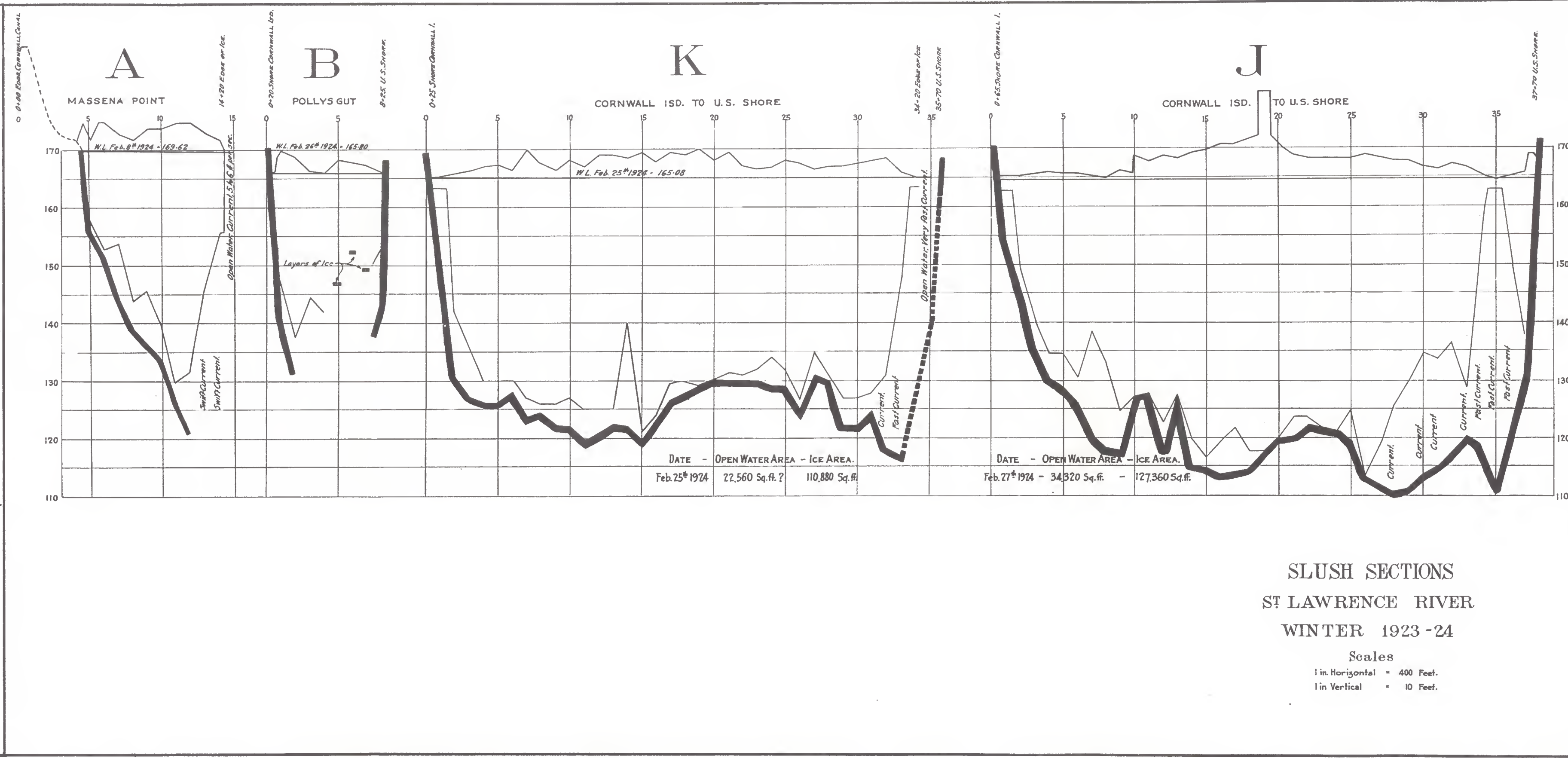
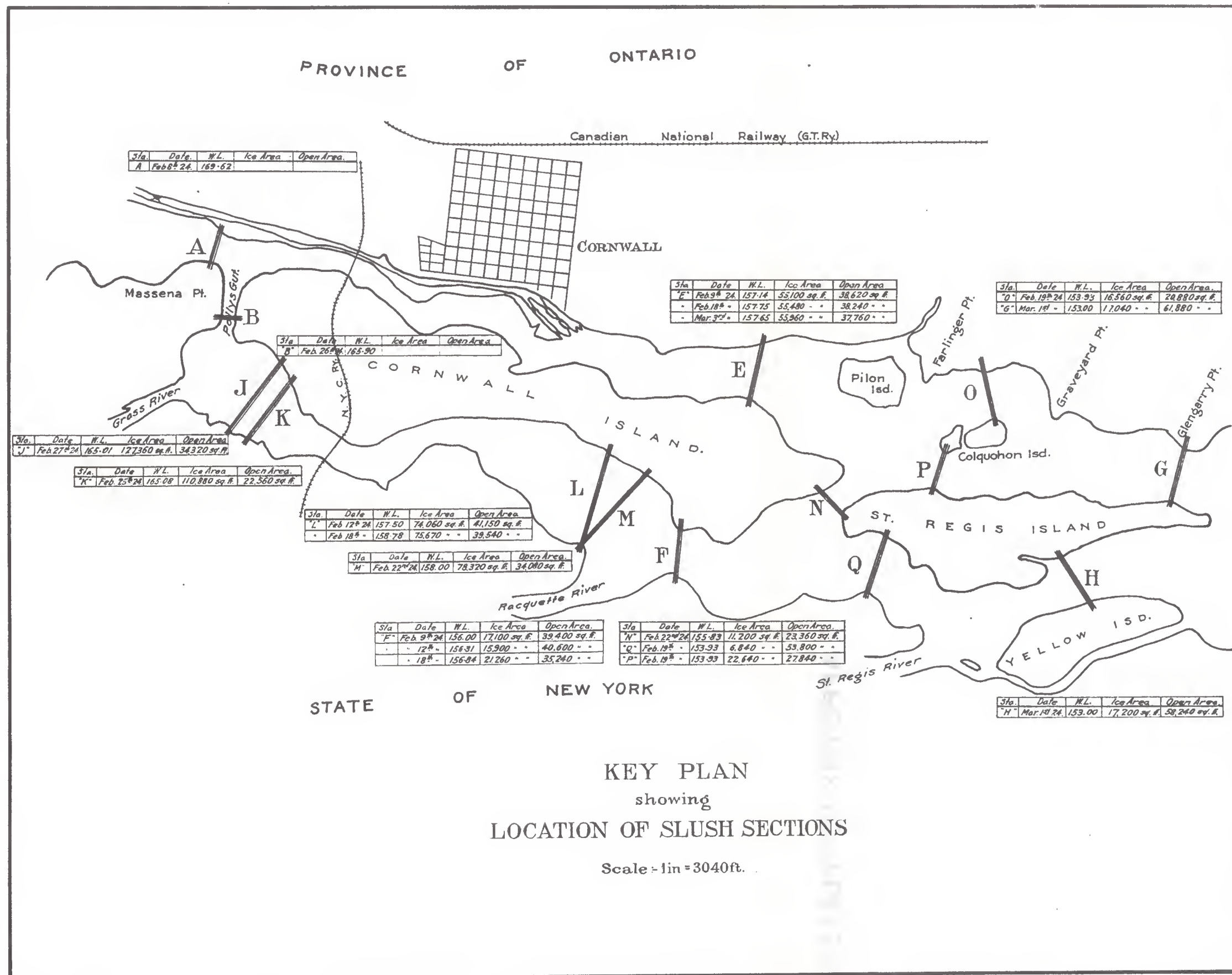
*For Lock 5, Lachine, only.

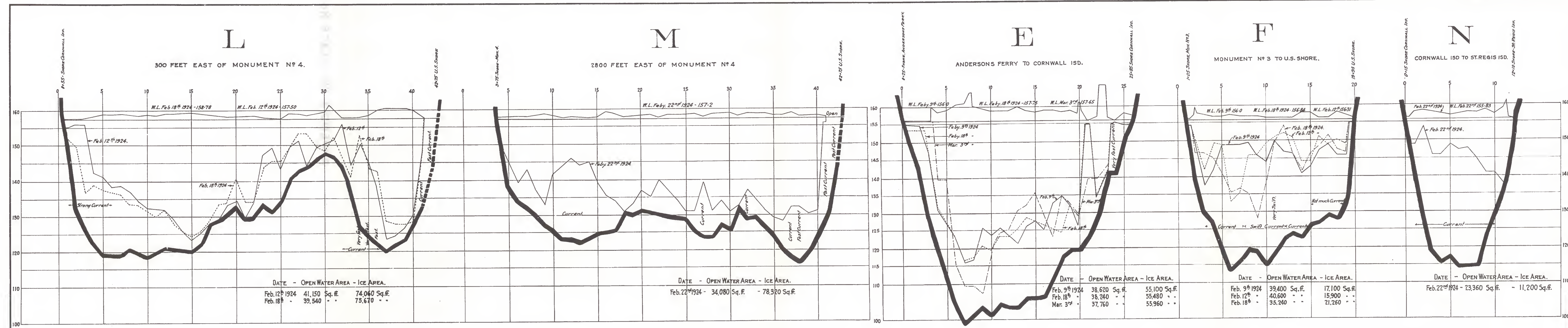


ST. LAWRENCE WATERWAY
DIAGRAM SHOWING
EFFECT OF SNOWFALLS AND
COLD WEATHER ON HEIGHT OF
ICE JAMS IN
ST. LAWRENCE RIVER

TO ACCOMPANY REPORT OF JOINT BOARD OF ENGINEERS
DATED, NOV. 16th 1926







SLUSH SECTIONS
ST LAWRENCE RIVER
WINTER 1923-24

Scales
1 in. Horizontal = 400 Feet.
1 in. Vertical = 10 Feet.

